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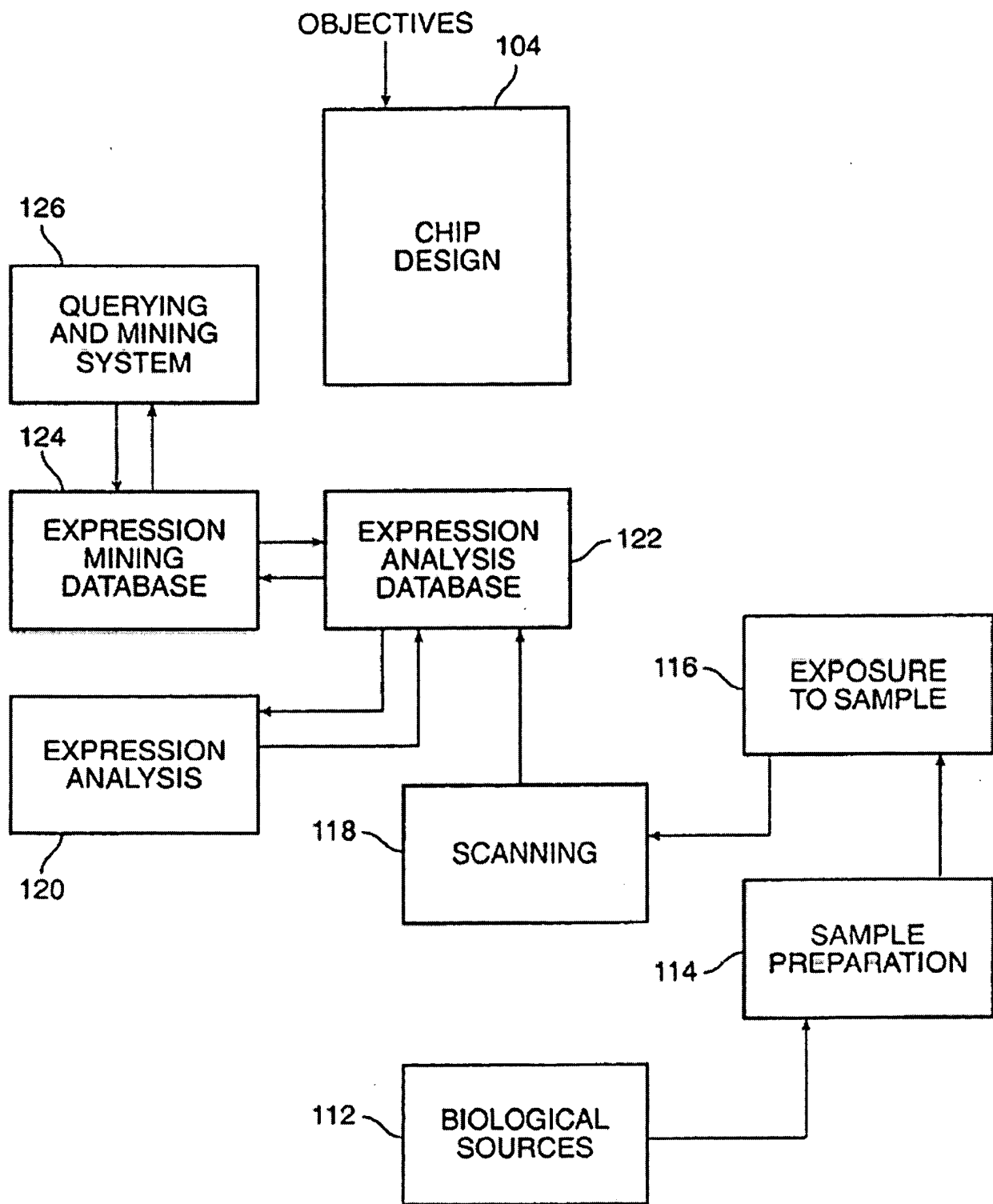


FIG. 1

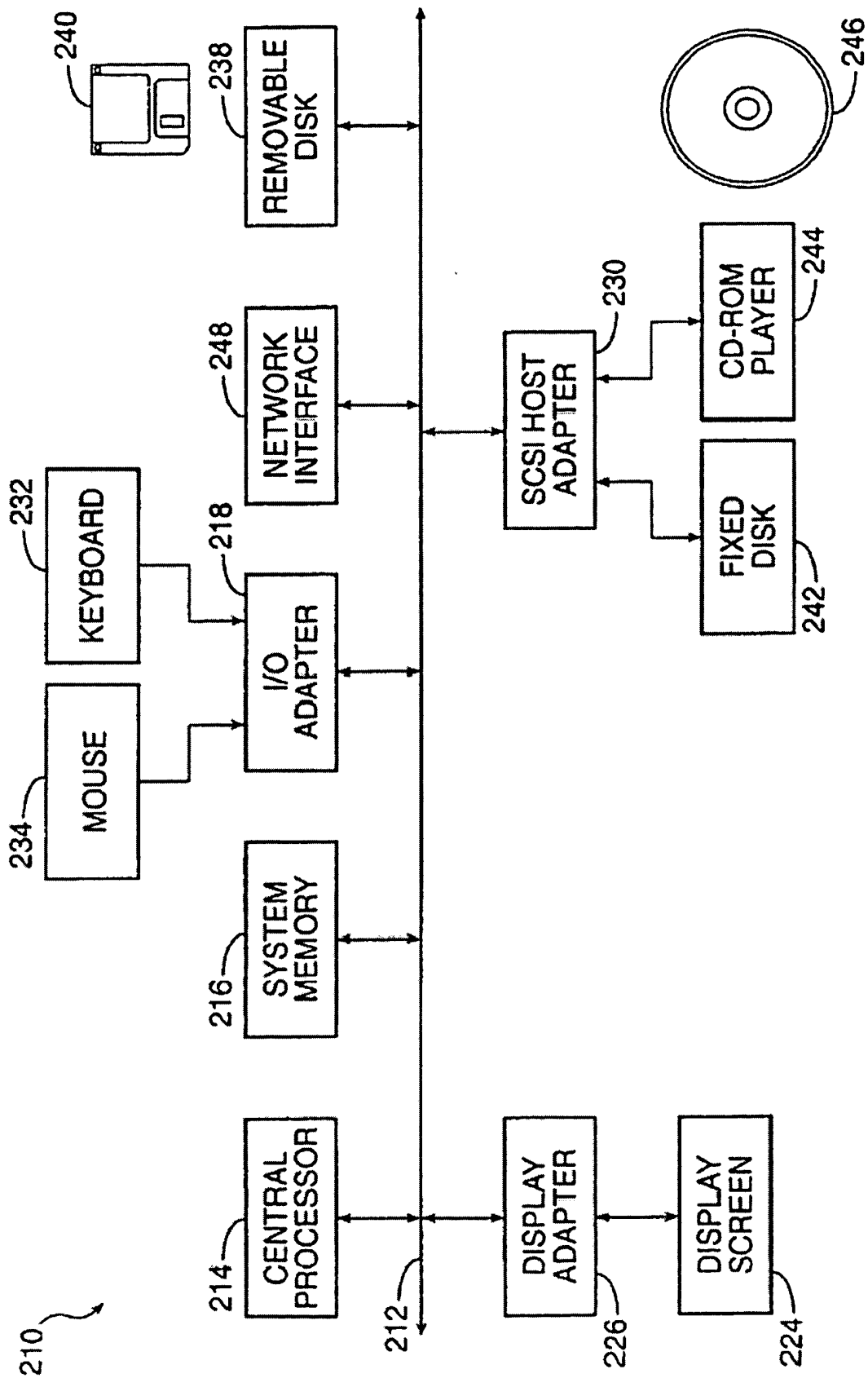


FIG. 2A

260 ~~~~~

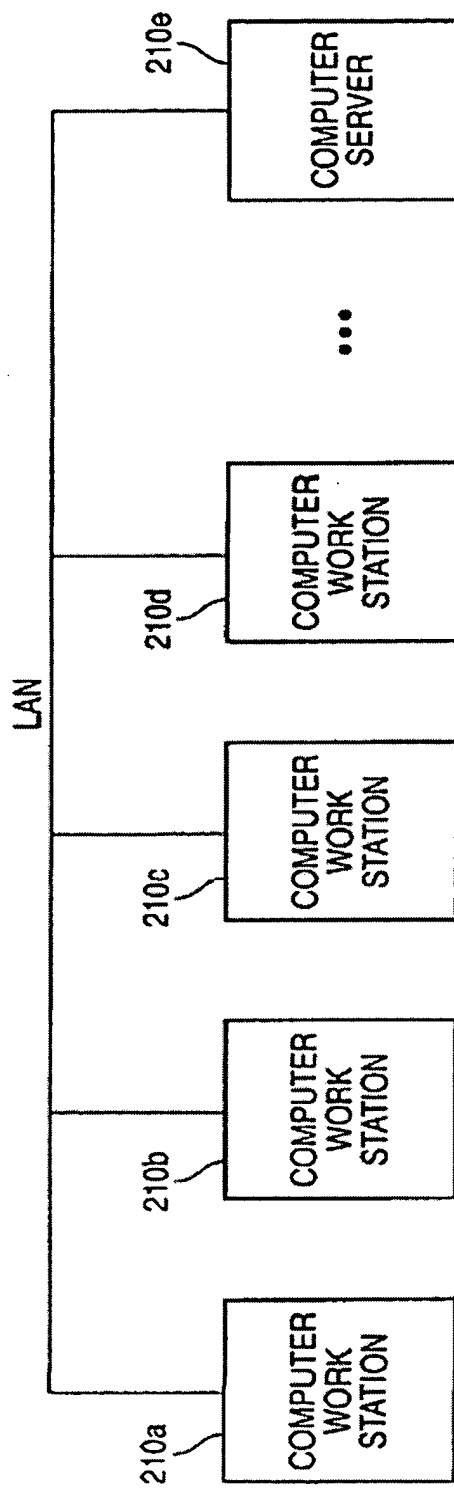


FIG. 2B

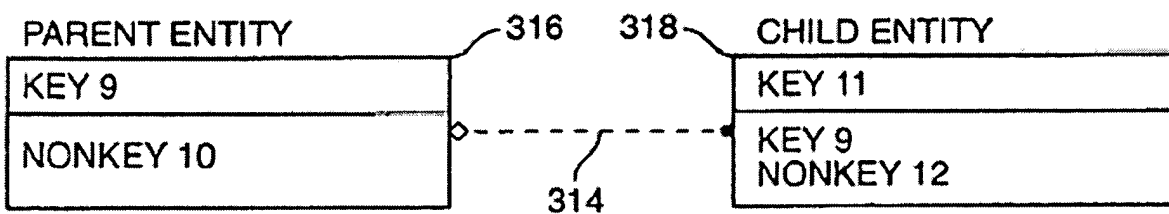
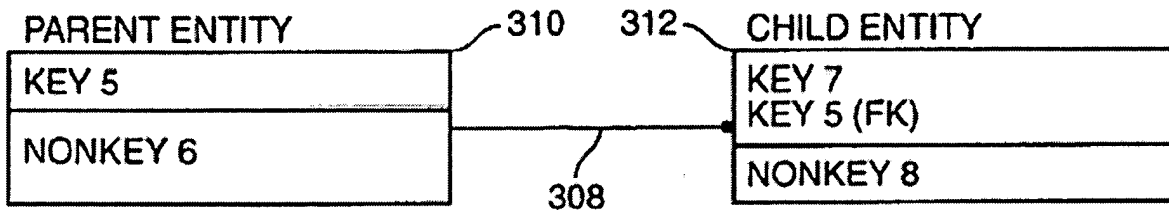
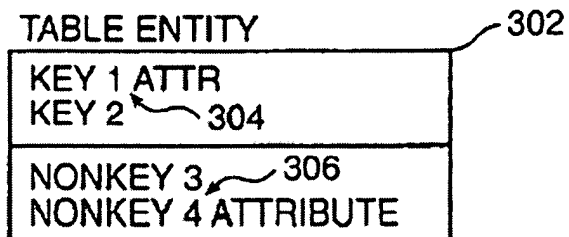


FIG. 3

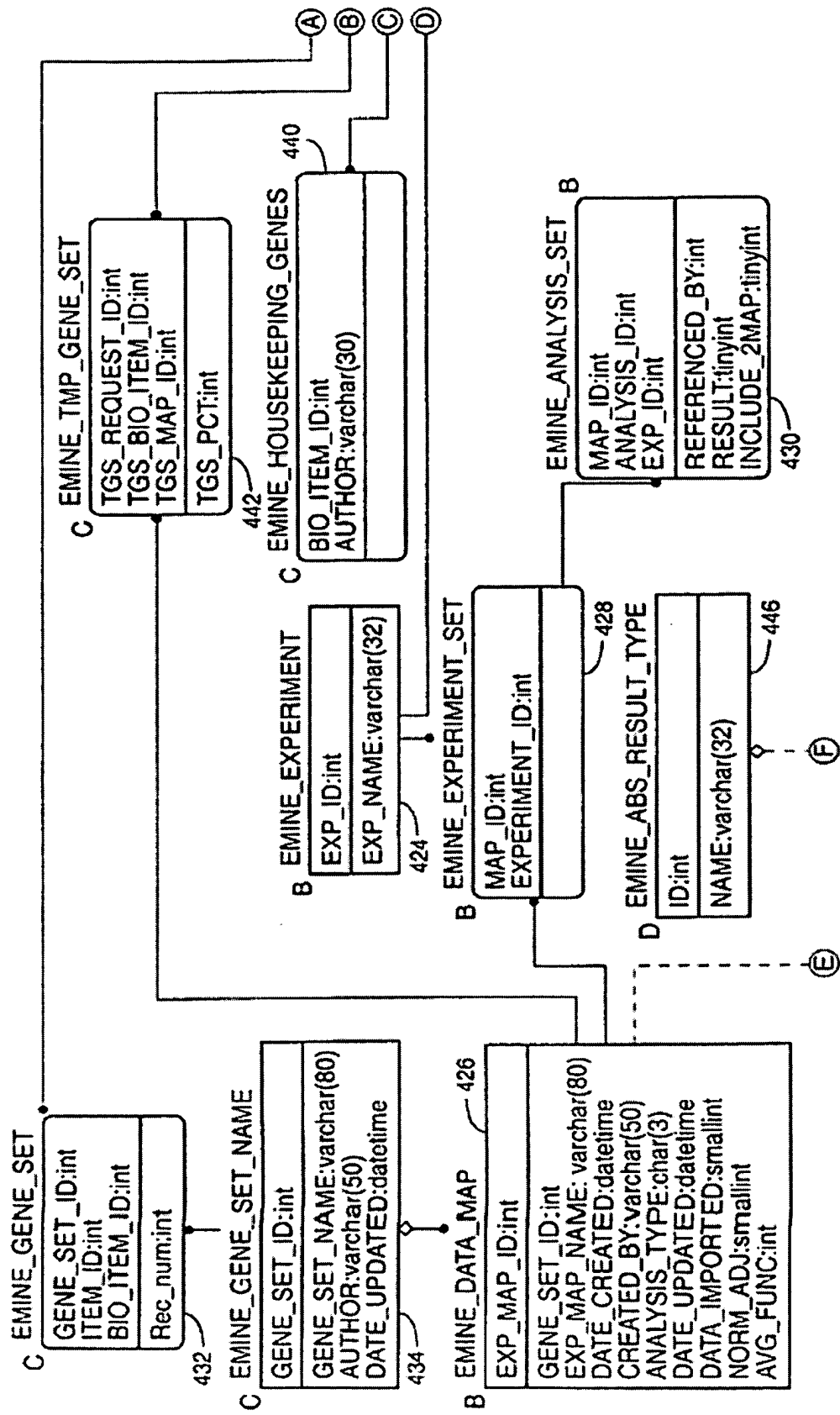


FIG. 4A.1

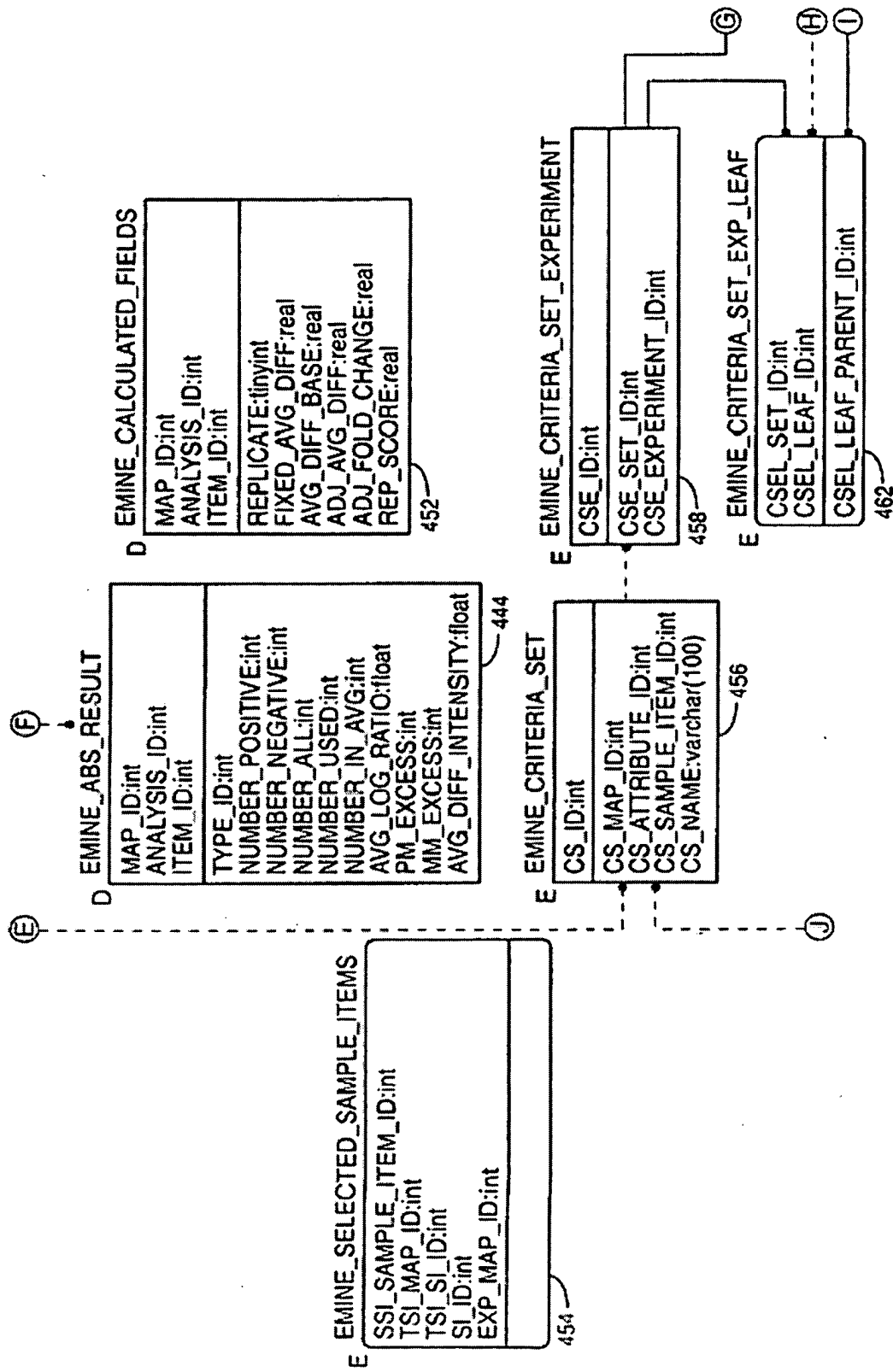


FIG. 4A.2

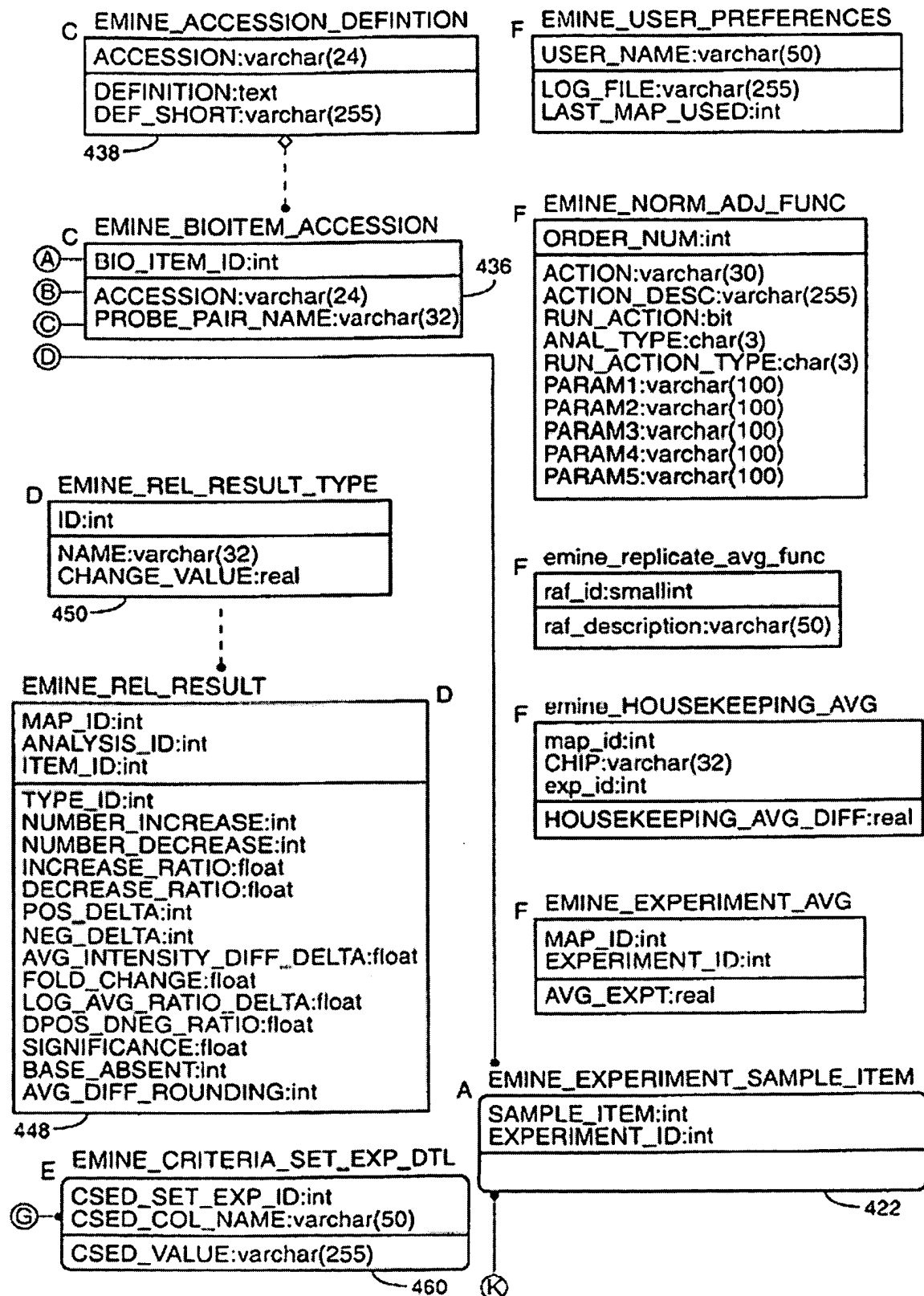


FIG. 4A.3



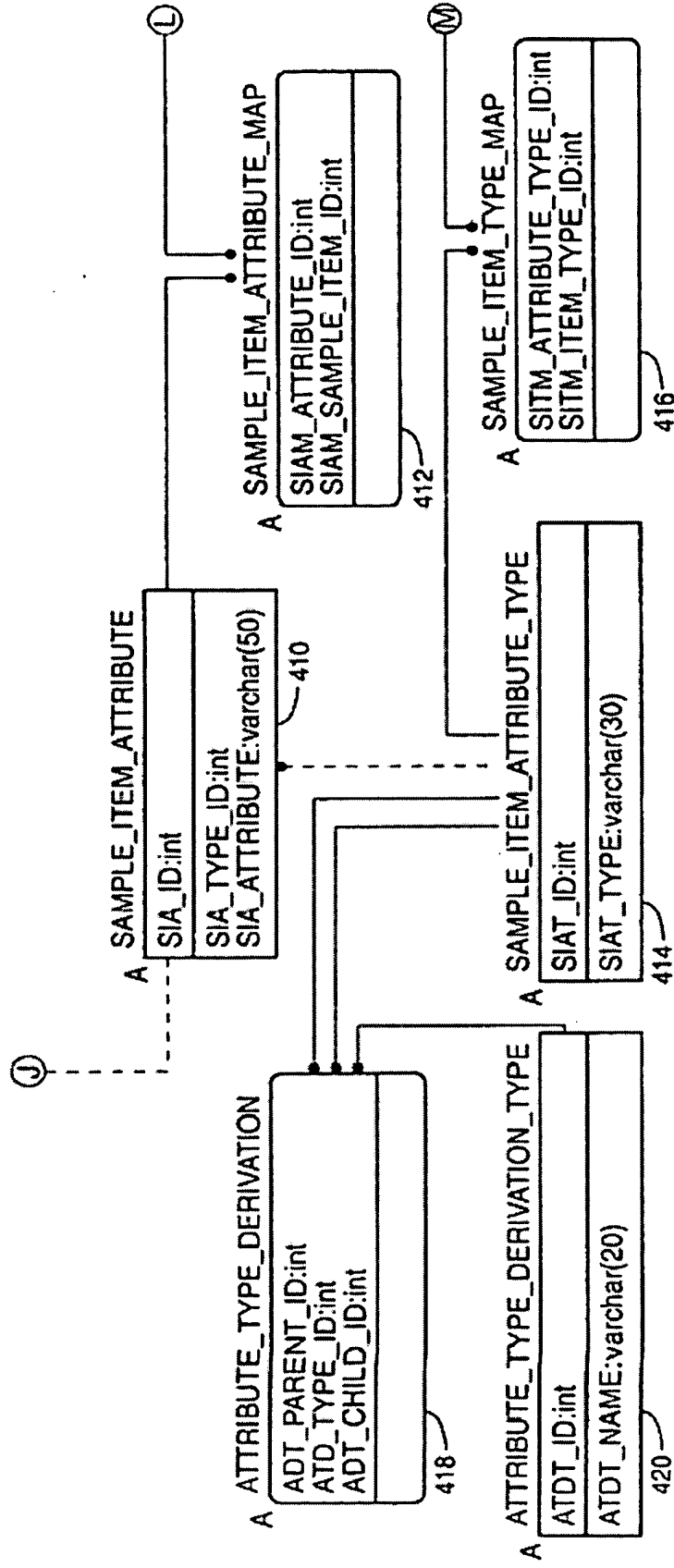


FIG. 4A.4

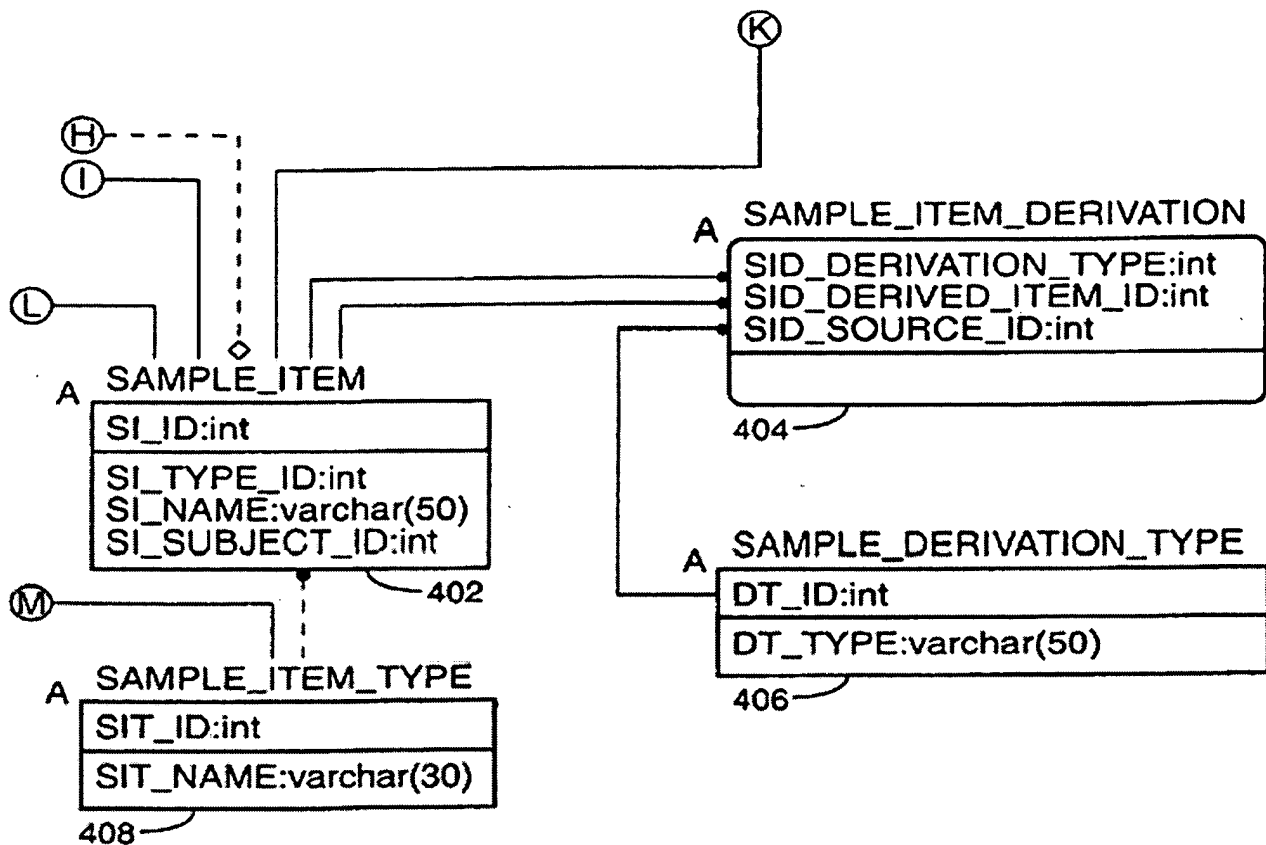


FIG. 4A.5

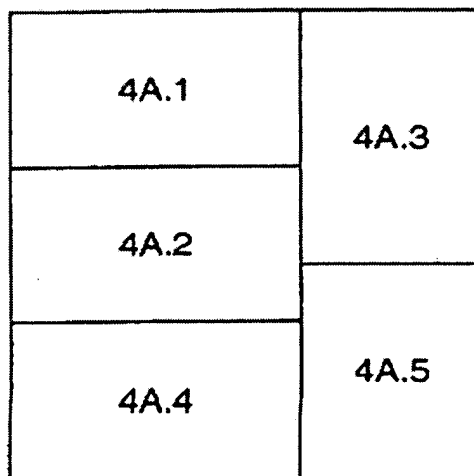


FIG. 4A

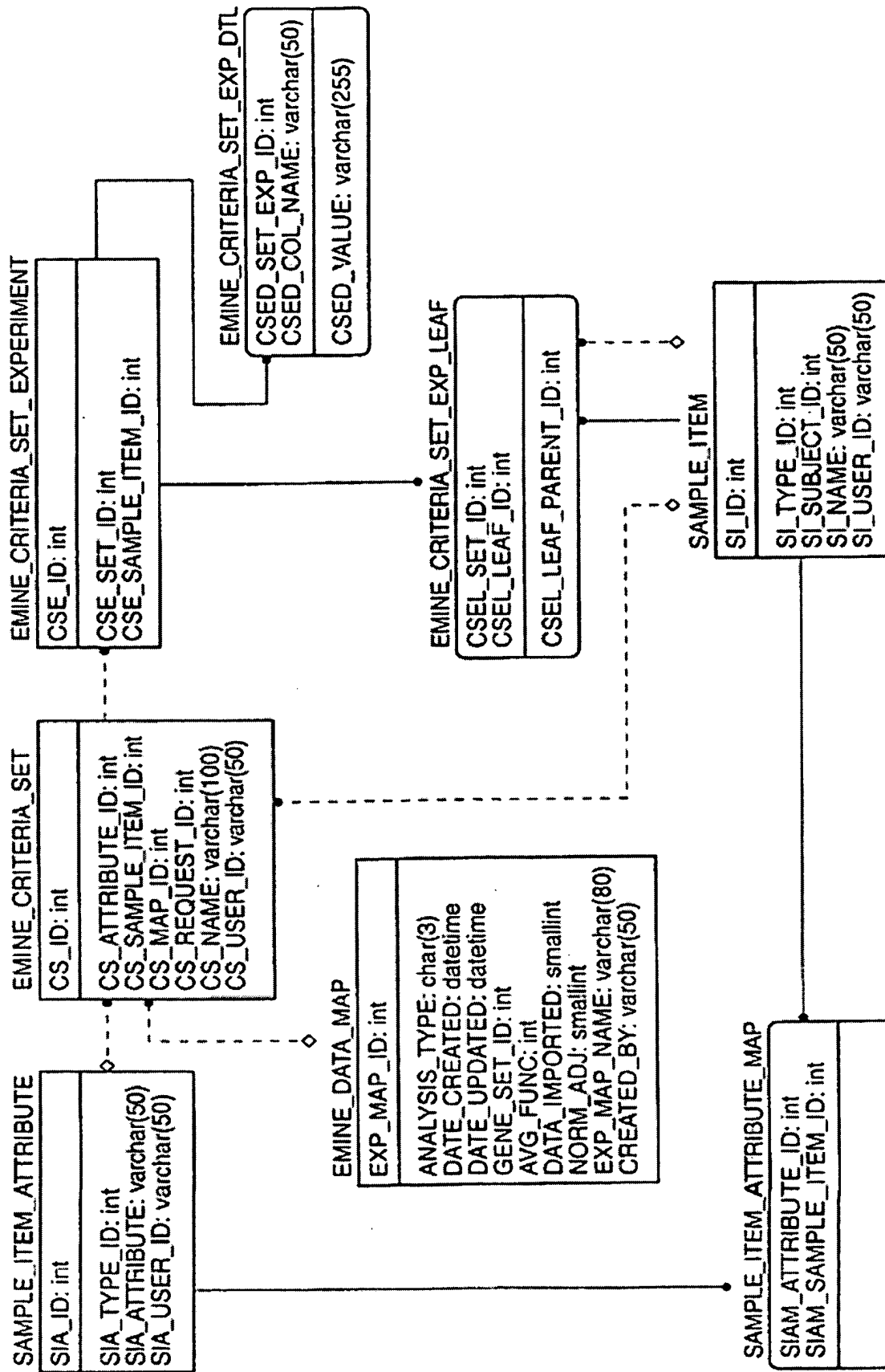
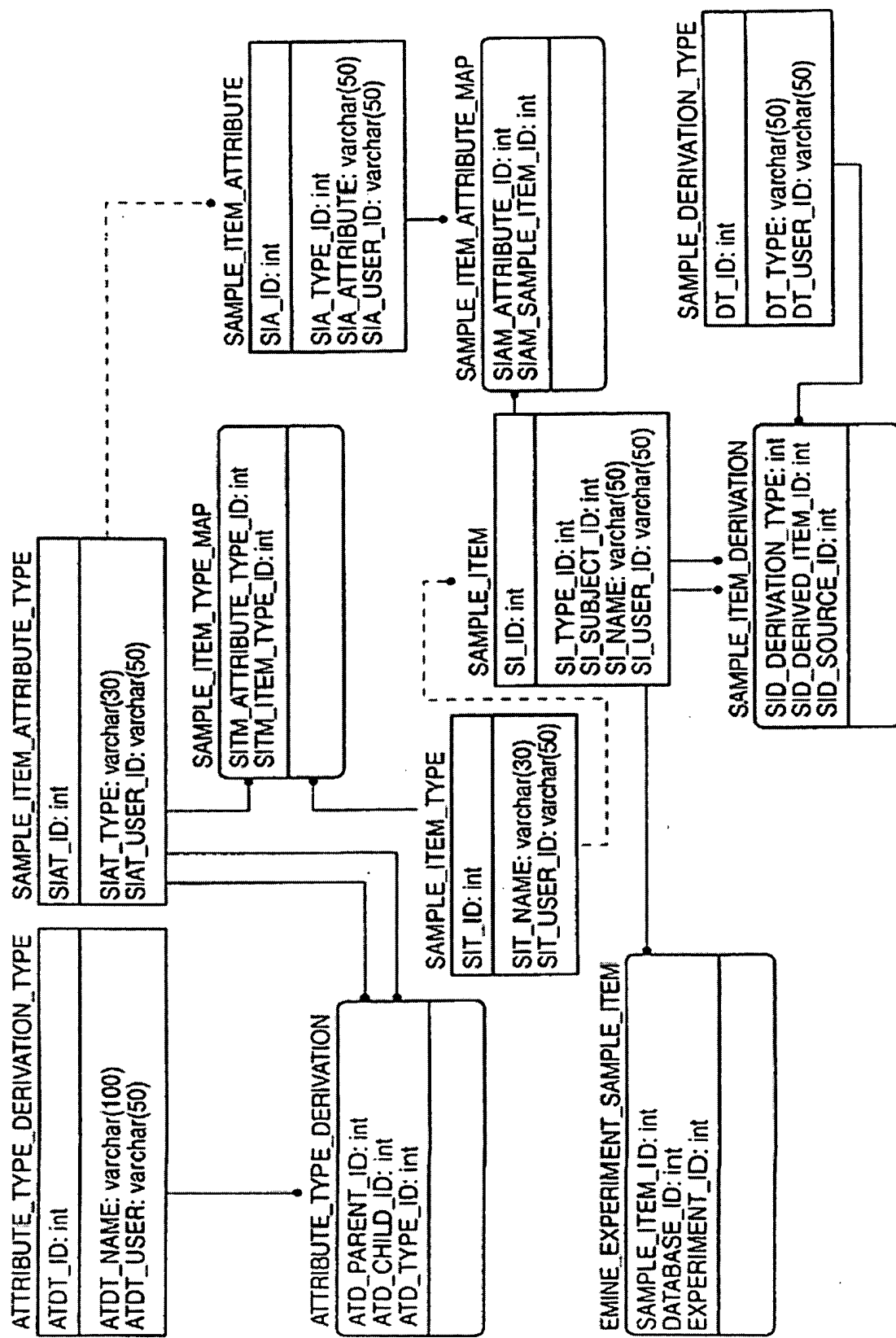


FIG. 4B



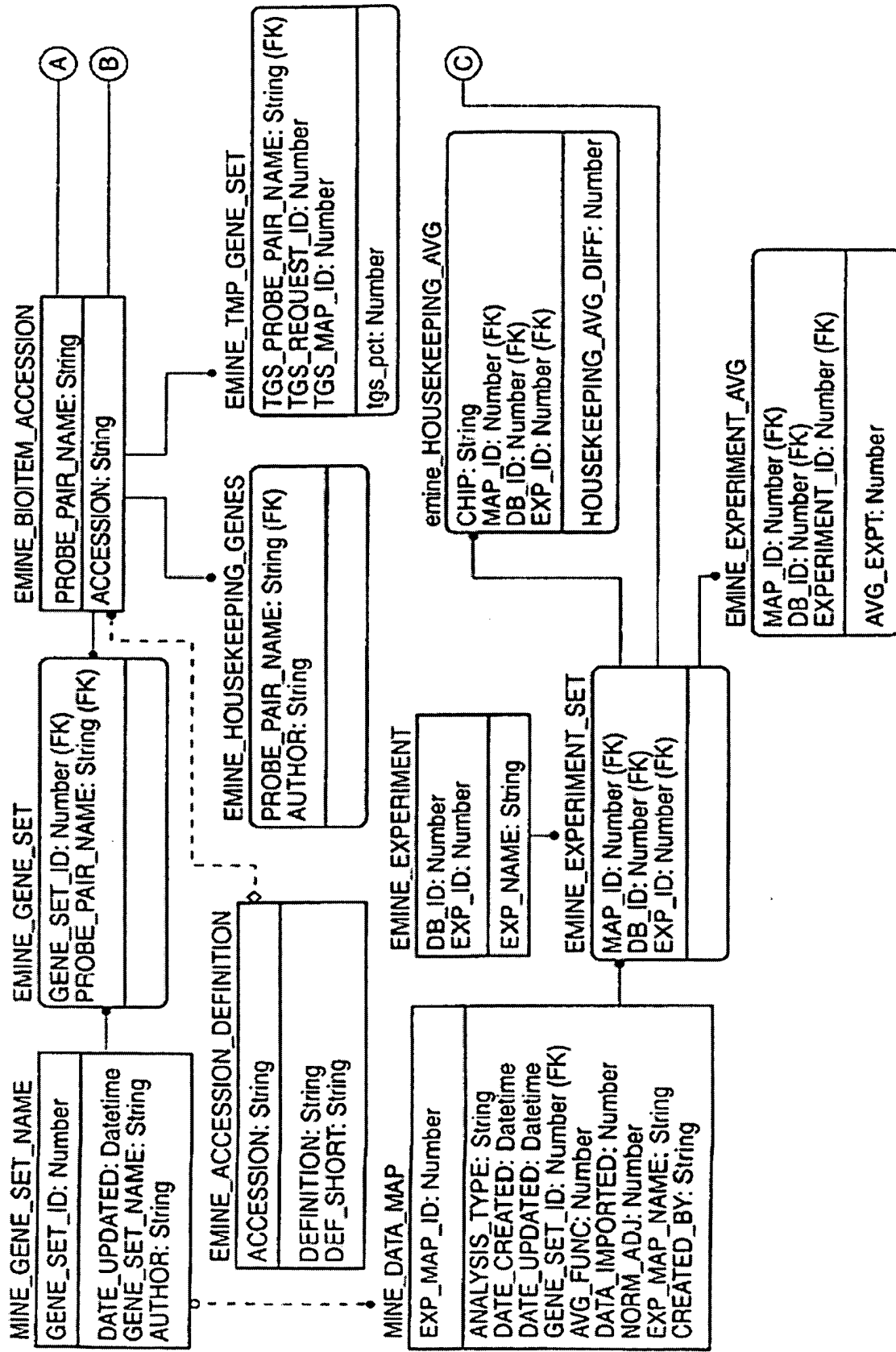


FIG. 4D.1

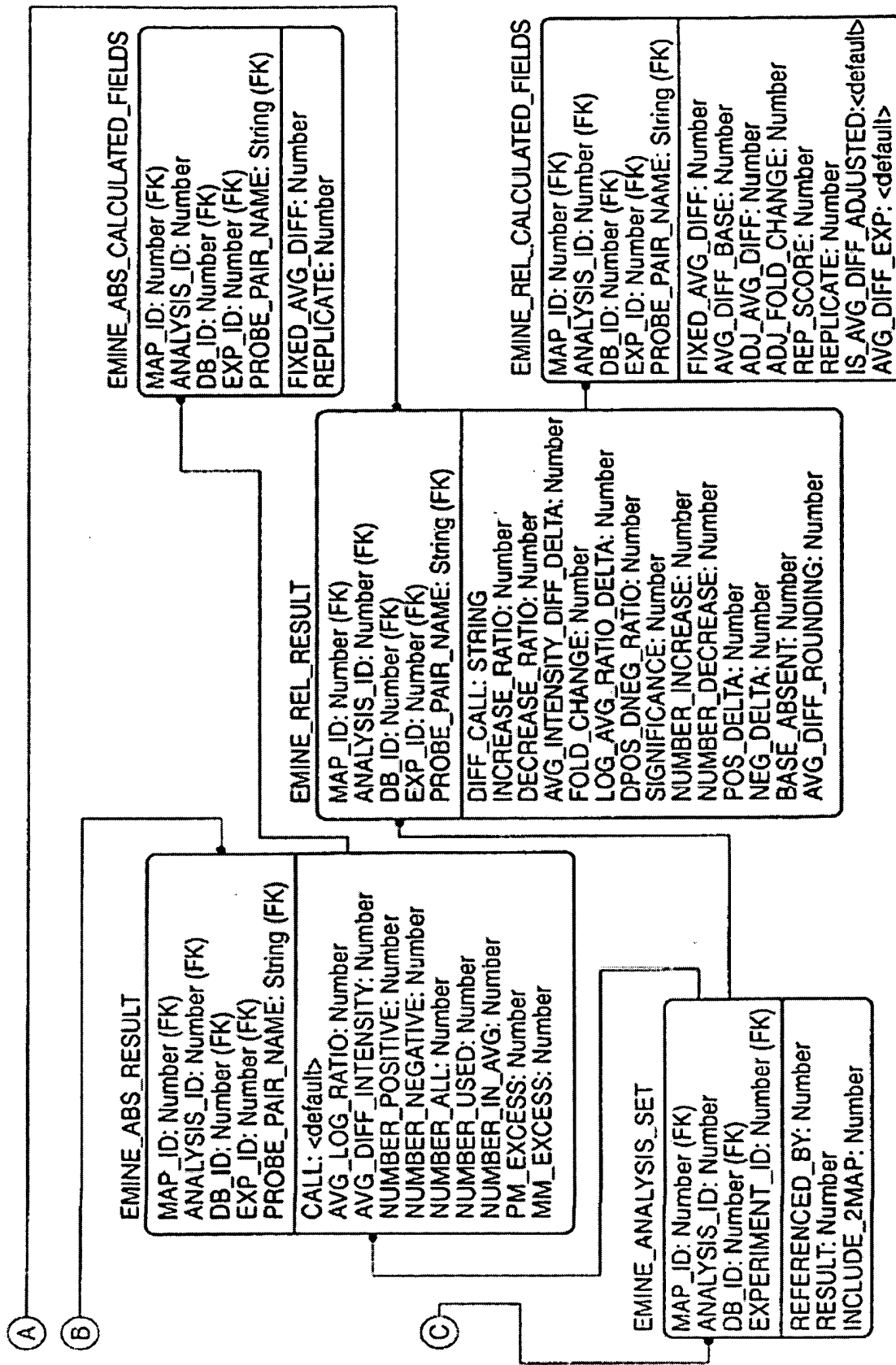


FIG. 4D.2

EMINE_REPLICATE_AVG_FUNC	
RAF_ID	
RAF_DESCRIPTION	

EMINE_NORM_ADJ_FUNC	
ORDER_NUM	
RUN_ACTION	
ANAL_TYPE	
RUN_ACTION_TYPE	
ACTION	
ACTION_DESC	
PARAM1	
PARAM2	
PARAM3	
PARAM4	
PARAM5	

EMINE_USER_PREFERENCES	
USER_NAME	
UPDATE_BIO_REF	
LAST_MAP_USED	
LAST_DB_ID	
LOG_FILE	

EMINE_SELECTED_SAMPLE_ITEMS	
SSI_MAP_ID	
SSI_SAMPLE_ITEM_ID	

EMINE_TMP_SAMPLE_ITEM_ID	
TSI_MAP_ID	
TSI_SI_ID	

FIG. 4E

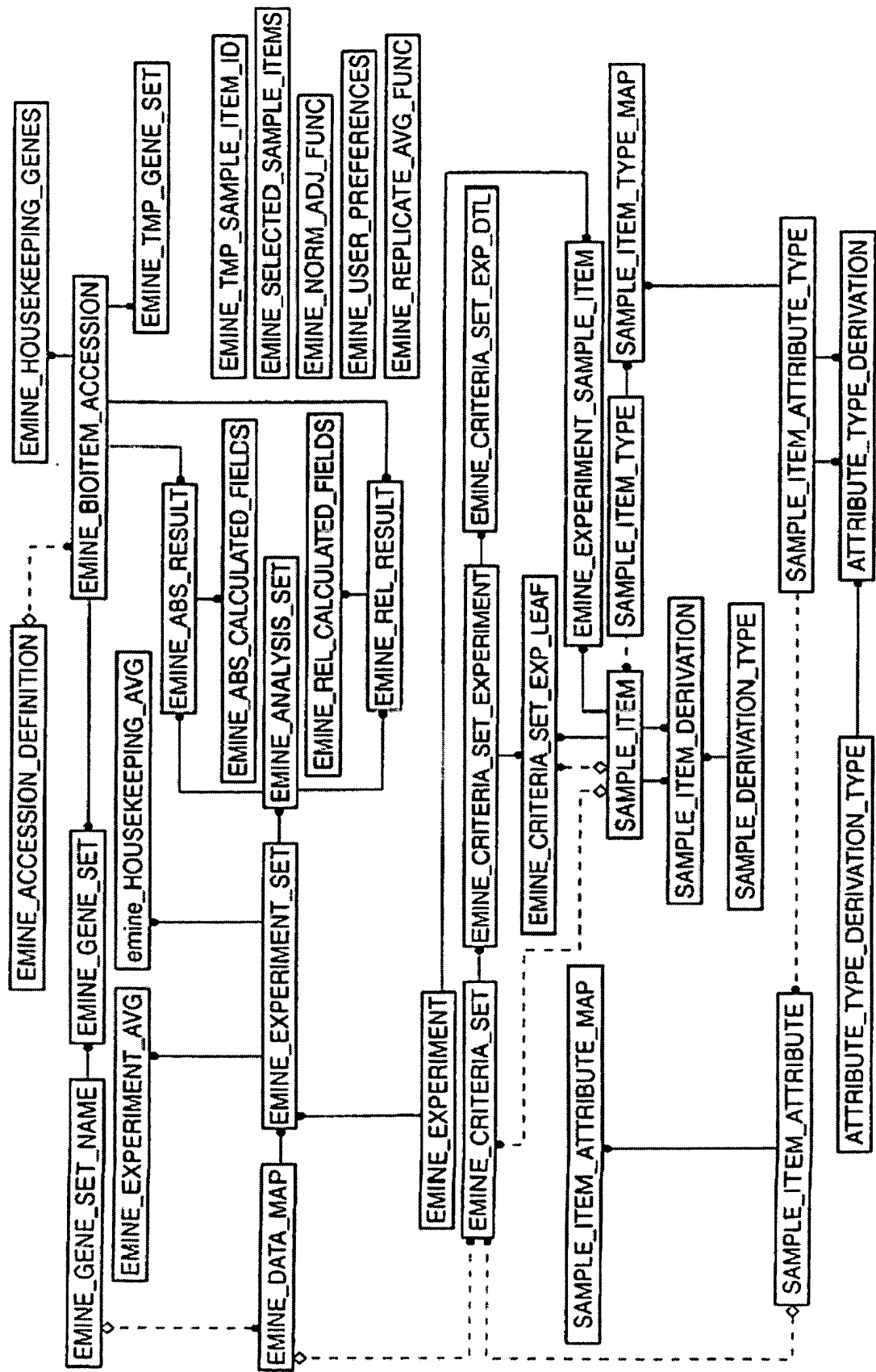


FIG. 4F



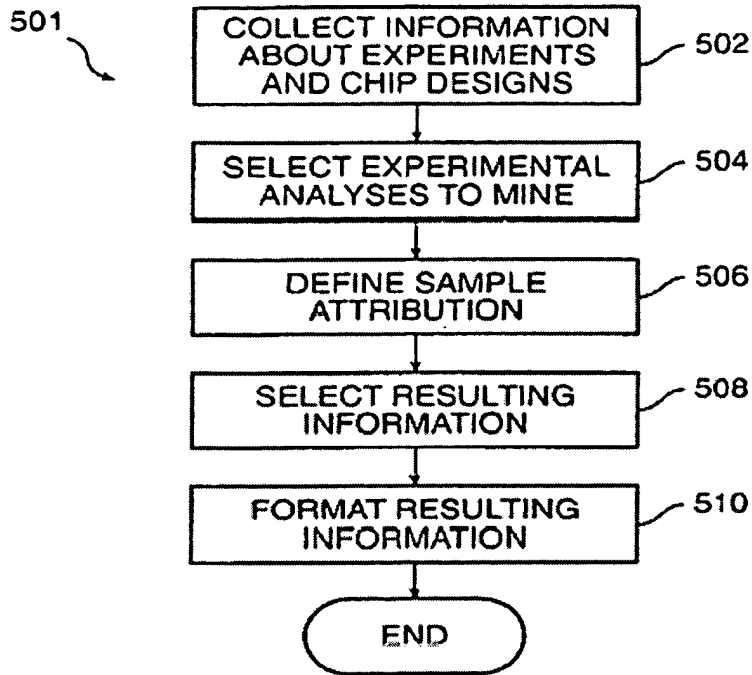


FIG. 5A

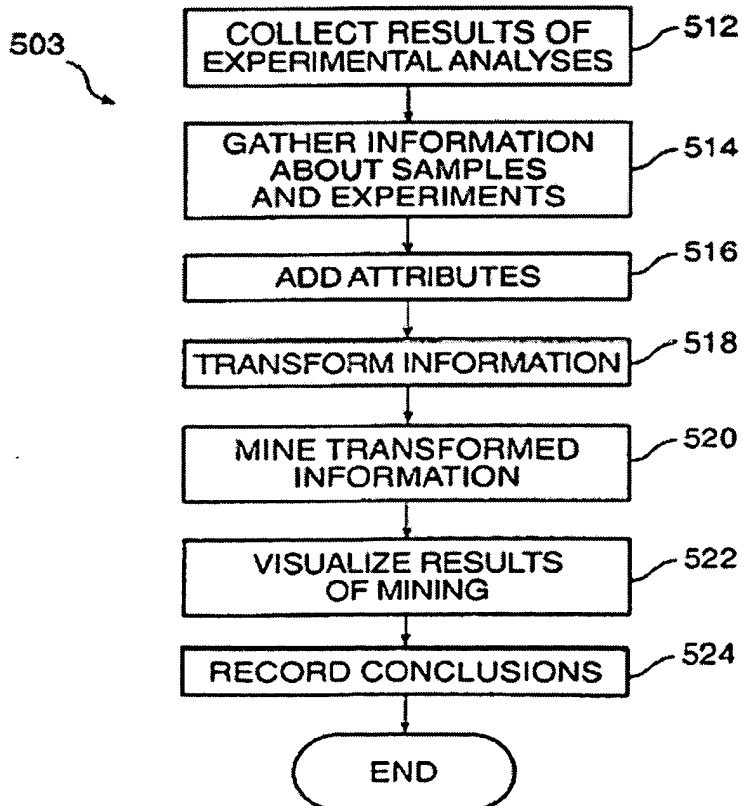


FIG. 5B

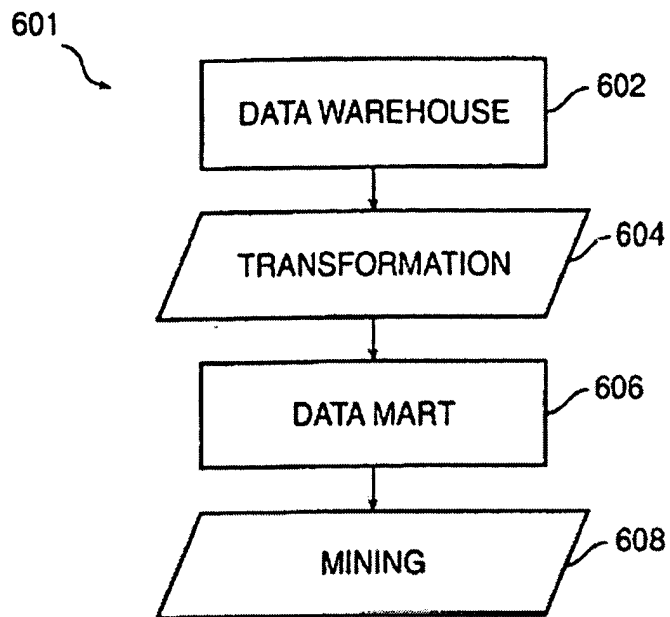


FIG. 6A

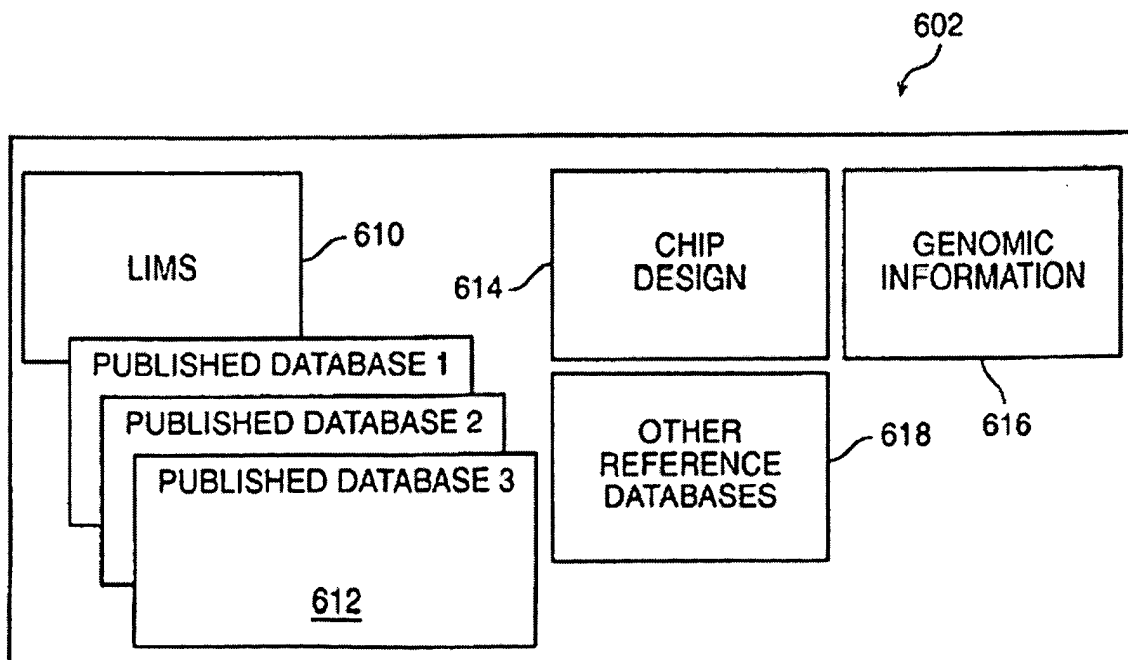


FIG. 6B

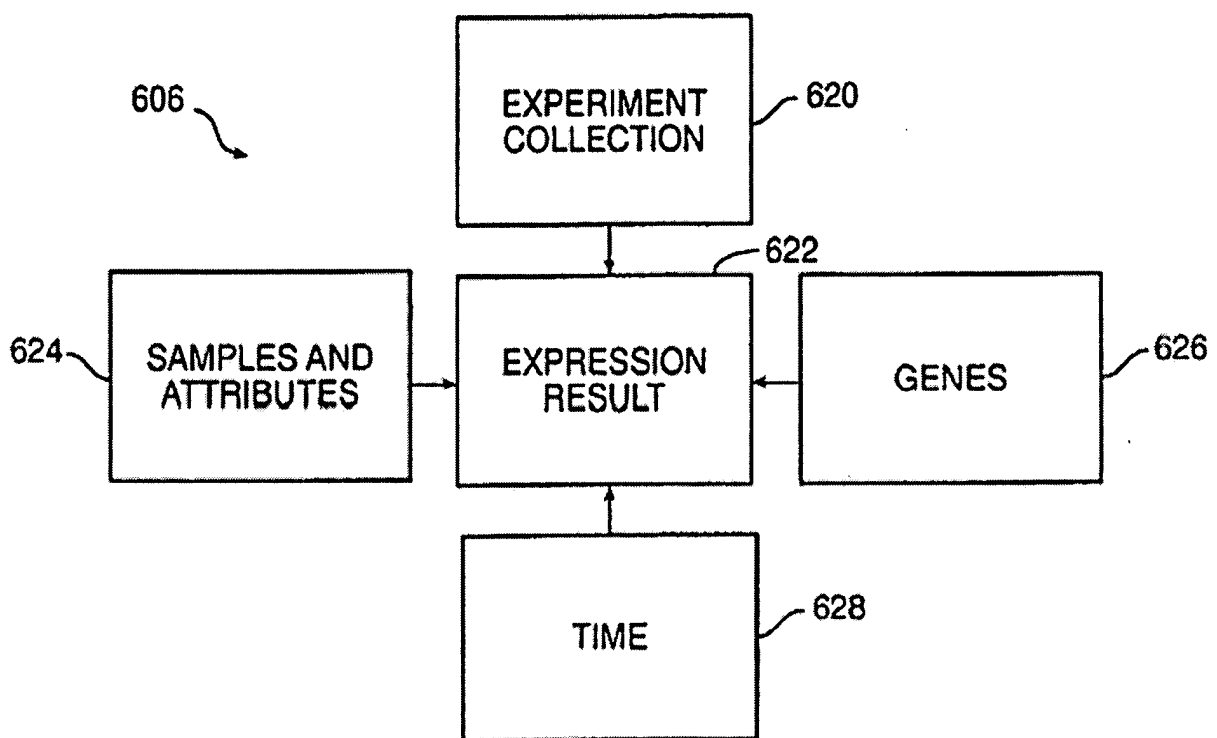
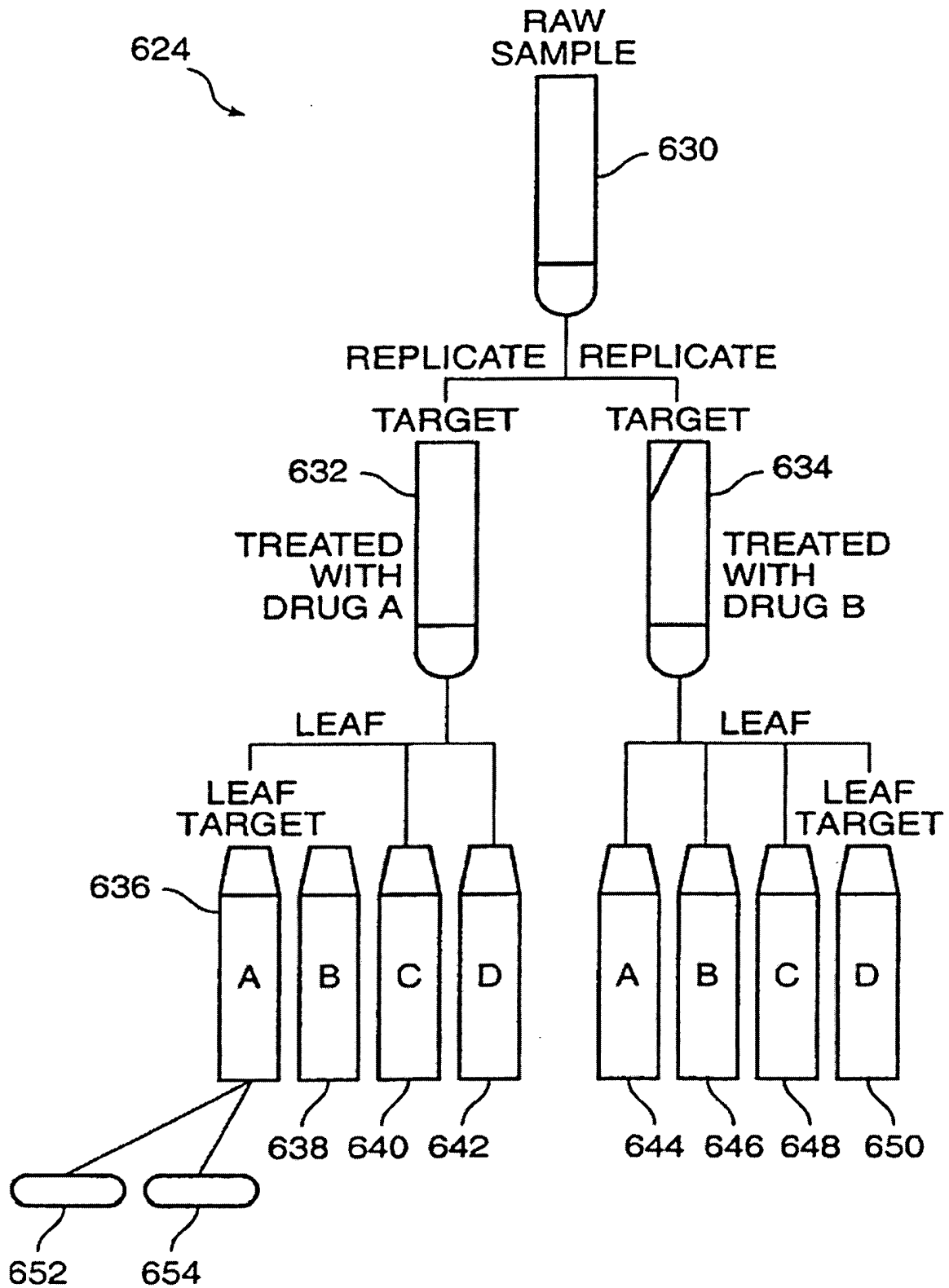


FIG. 6C



**FIG. 6D**

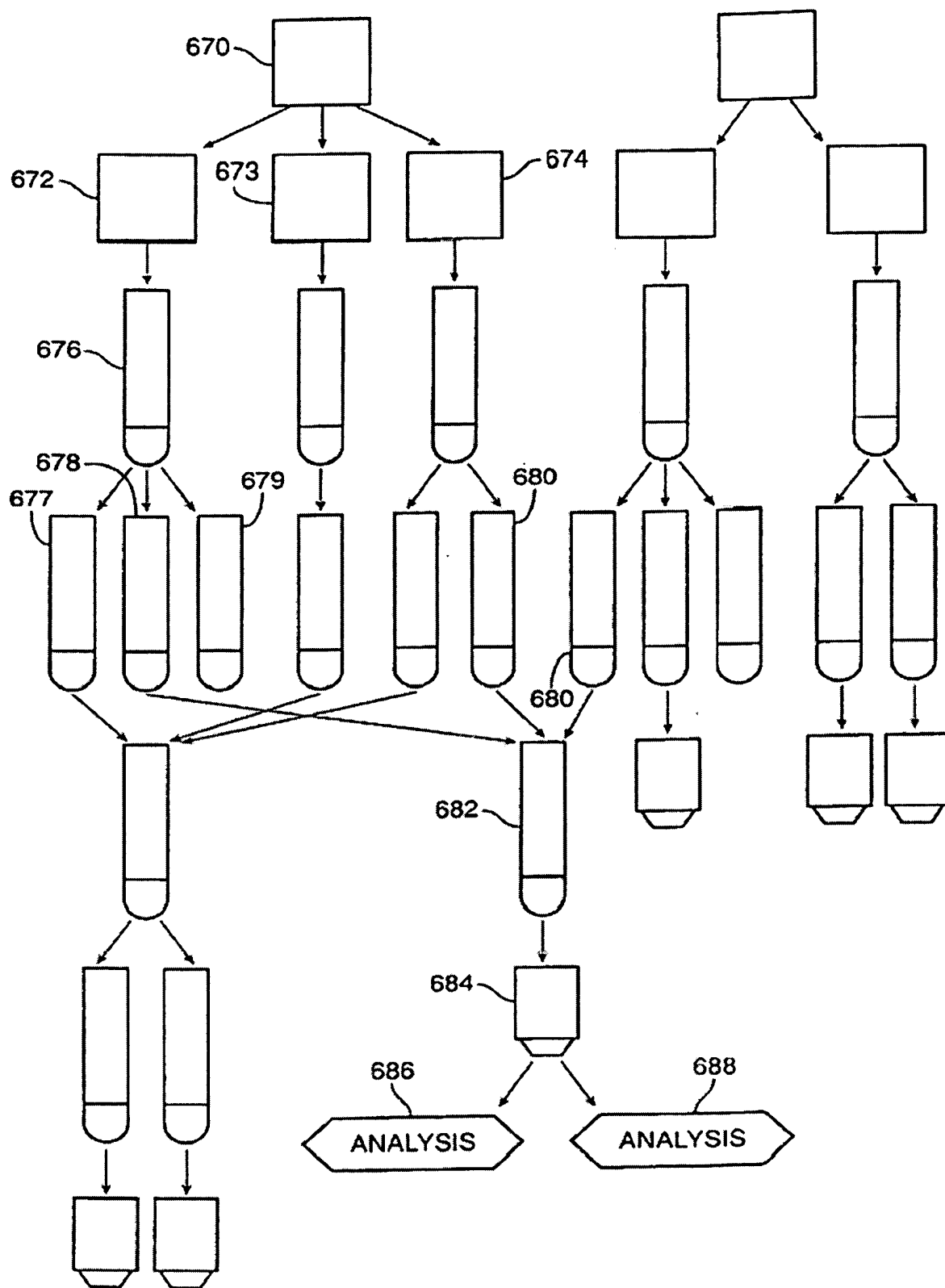


FIG. 6E

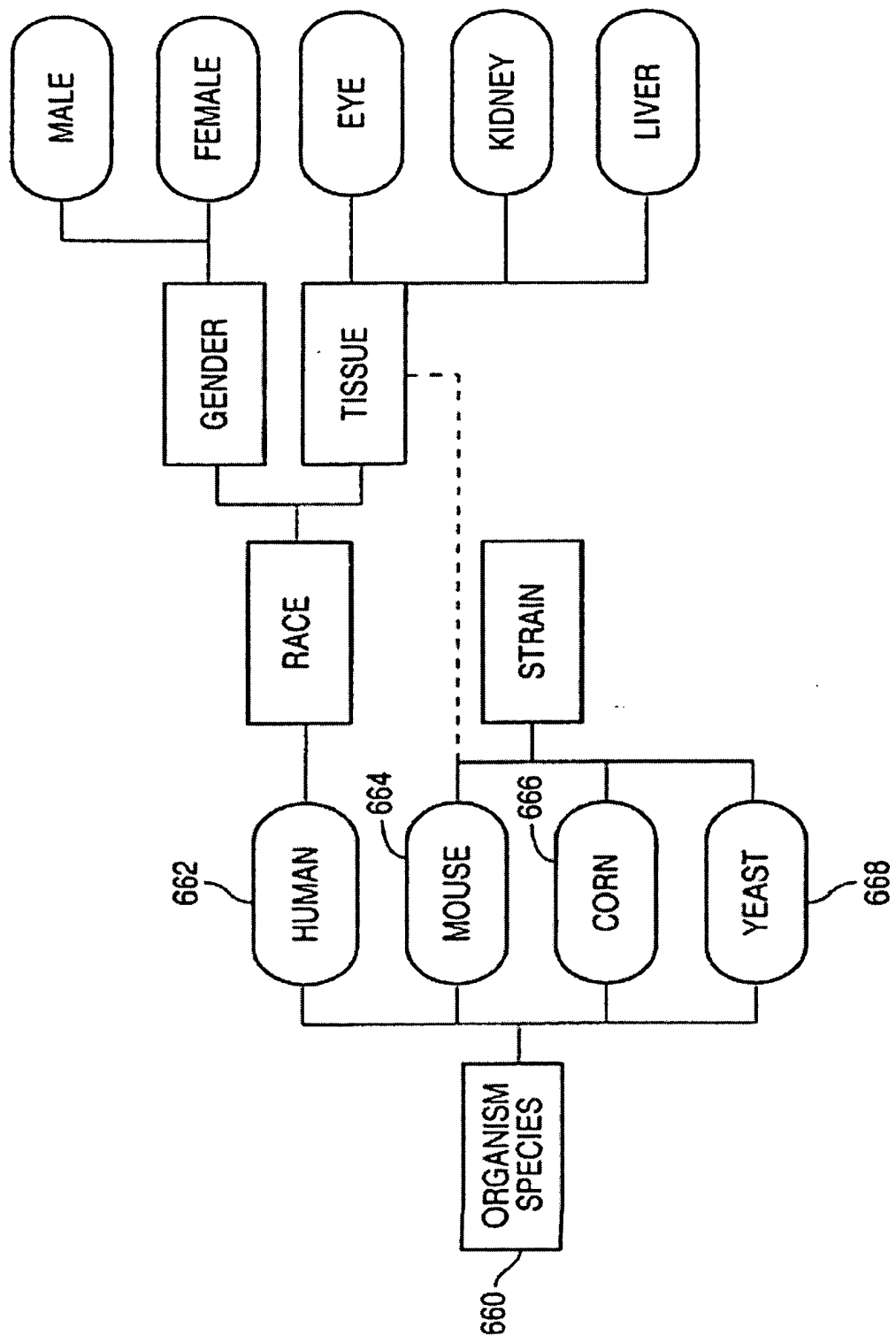


FIG. 6F

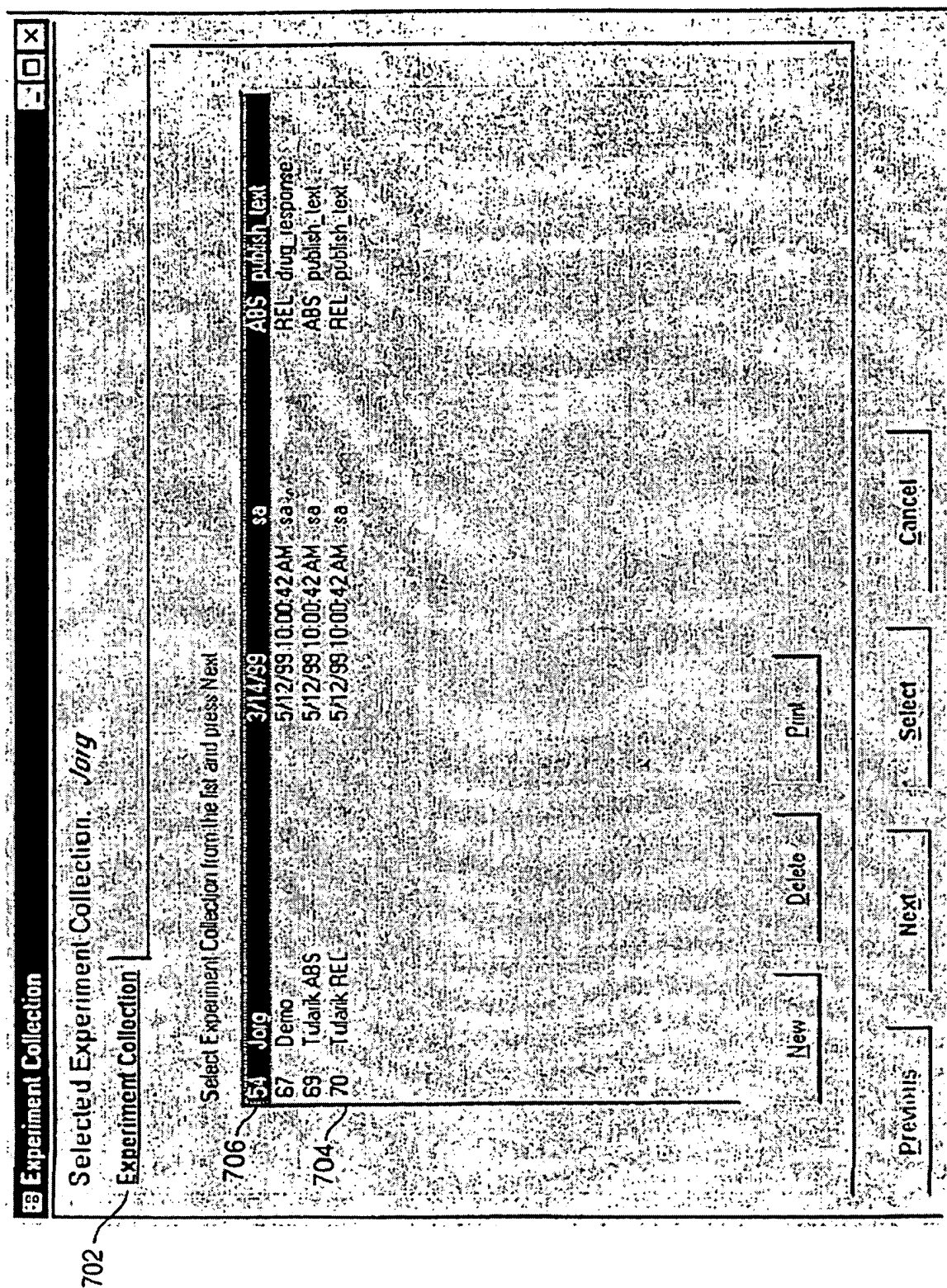


FIG. 7A

Experiment Collection

Selected Experiment Collection: Demo

Experiments

Experiments Selected

734

expt	dat	file name
1		\\swdevalpha\GCLims\Data\980604D-3a.DA
4		\\swdevalpha\GCLims\Data\9801268-3g.DA
5		\\swdevalpha\GCLims\Data\9801268-2b.DA
6		\\swdevalpha\GCLims\Data\9801268-2c.DA
7		\\swdevalpha\GCLims\Data\9801268-2d.DA
8		\\swdevalpha\GCLims\Data\9801268-2e.DA

738a

738b

Select All

Experiments Available

736

expt	dat	file name
9		\\swdevalpha\GCLims\Data\9801268-2f.DA
10		\\swdevalpha\GCLims\Data\9801268-2g.DA
11		\\swdevalpha\GCLims\Data\9801268-2h.DA
12		\\swdevalpha\GCLims\Data\9801268-3a.DA
13		\\swdevalpha\GCLims\Data\9801268-3d.DA
14		\\swdevalpha\GCLims\Data\9801268-2a.DA
15		\\swdevalpha\GCLims\Data\980827dE.DA
16		\\swdevalpha\GCLims\Data\980826A2.DA
17		\\swdevalpha\GCLims\Data\980826A3.DA
18		\\swdevalpha\GCLims\Data\980826A1.DA
19		\\swdevalpha\GCLims\Data\980826A4.DA
20		\\swdevalpha\GCLims\Data\980826A6.DA

Select All

744

Columns

746

Value

748

750

Filter

Reset

Previous

Next

Select

Cancel

FIG. 7B





Experiment Collection

Selected Experiment Collection: Demo

Samples

Child Sample Item

sample_item	type	derivation
7.8hr-control-ab	Leaf	Tar, Leaf

Sample Item Type

771

Parent Sample Item

sample_item	type	derivation
632	30min-control4-ab	
633	30min-HIV-ab	
634	2hr-control-ab	
635	2hr-HIV-ab	
636	4hr-hiv-ab	
637	4hr-control-ab	
638	8hr-control-ab	
639	8hr-hiv-ab	
640	16hr-control-ab	
641	16hr-hiv2-ab	
642	24hr-control-ab	
643	24hr-hiv-ab	
644	48hr-control2-ab	
645	48hr-hiv-ab	
646	72hr-control3-ab	
647	72hr-hiv2-ab	

Attribute

772

attribute	type
8 hr	Time Points
Project1	Project

774

Previous

775

Next

776

Select

777

Cancel

Manage Sample Attribution

Show in Visio

FIG. 7D

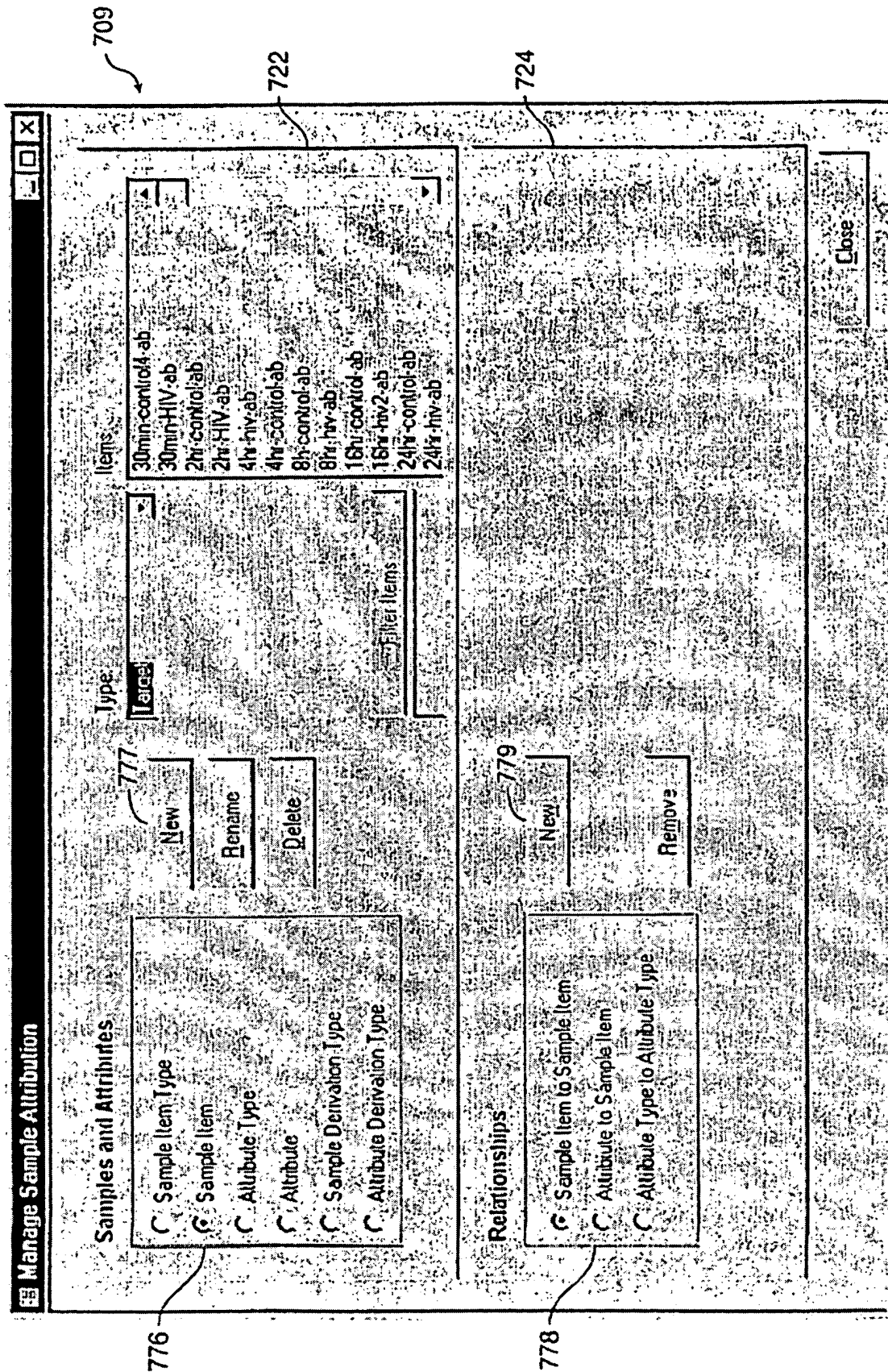


FIG. 7E

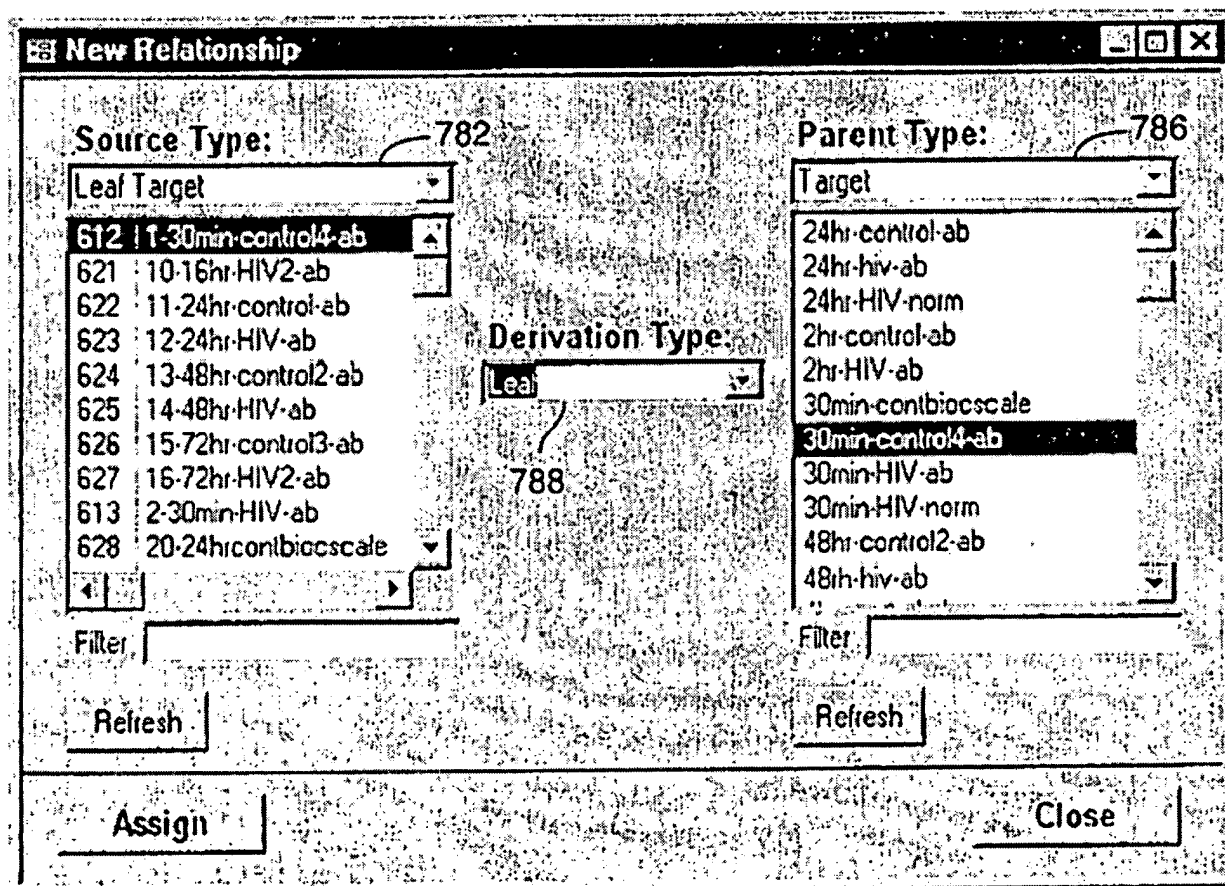
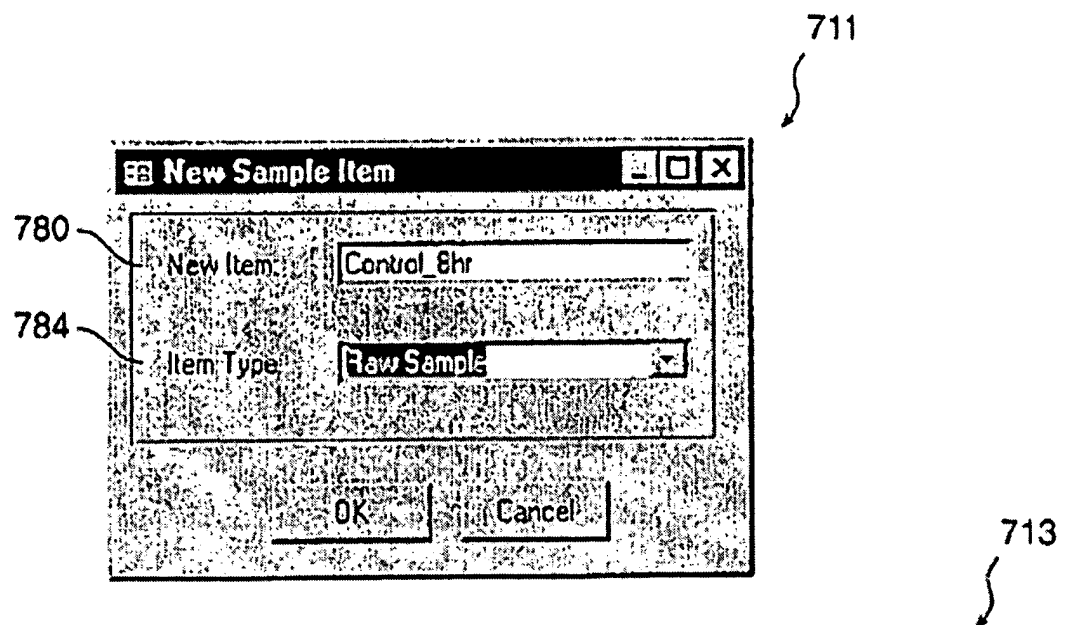


FIG. 7F

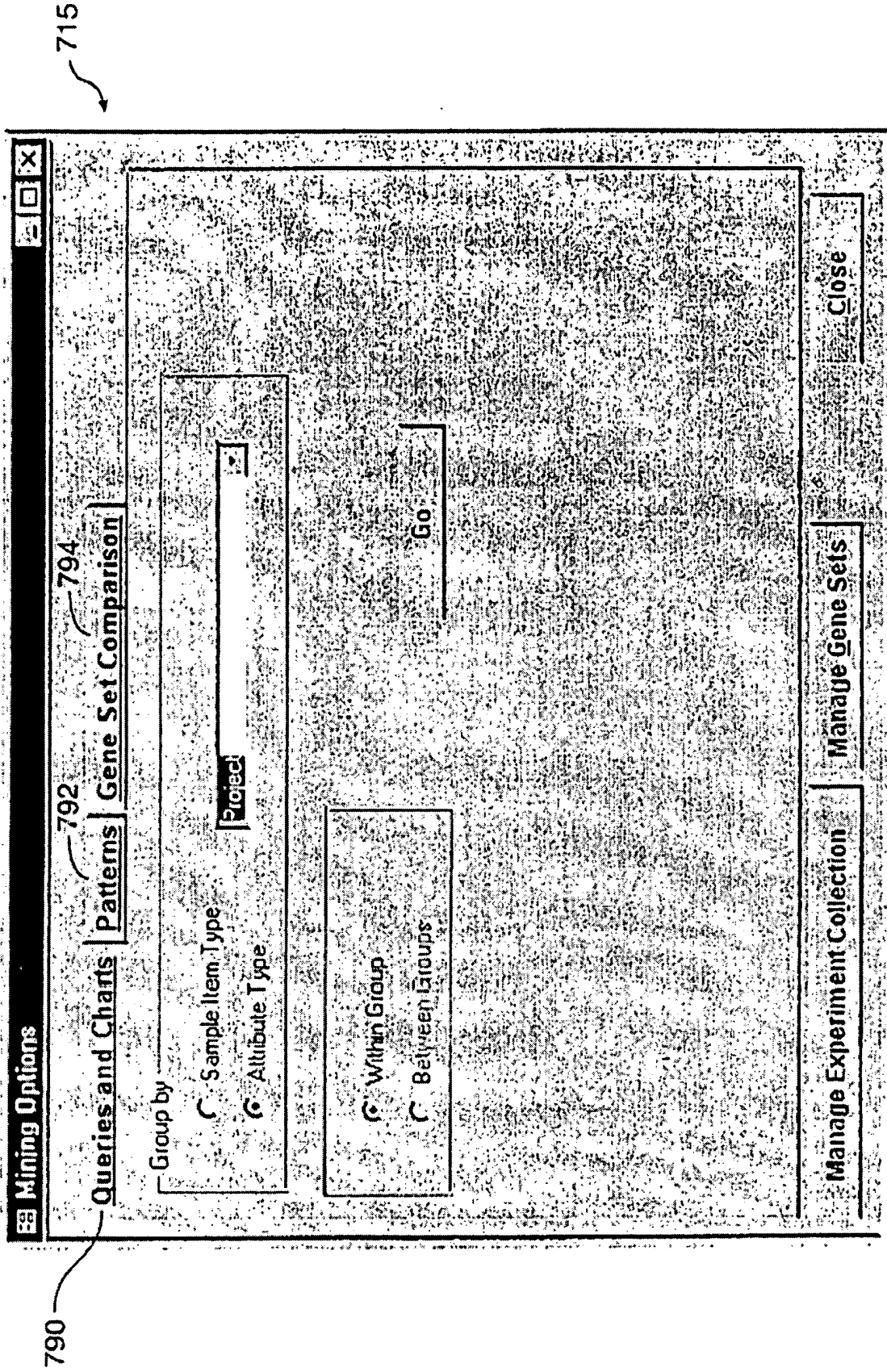


FIG. 7G



Experiment Mining

Select Group: 798

Project1

Saved Criteria

Save Criteria

SAMPLE ITEM	BIO ITEM	NUMBER POS	CALL	NUMBER
30min-control4-ab			= 'p'	
30min-HIV-ab			= 'p'	

Record: 14 of 3

Gene Set: DEFAULT

Edit Gene Sets

Find all genes expressed in 100 % of the experiments in the group

Execute

Close

FIG. 7H

Seq - Query ID: 1

Selected Data

Scanner

Gene/Experiment

Series

Multiple Values

804

805

806

807

808

809

Export Data

Save Gene Set

LEAF	PARENT	EXPERIMENT	BIOITEM	CALL	AVG LOG RA	AVG DIFF	INT NUMBER	POS	NUMBER	NEG
30min-control4	1-30min-control	AB000449_at	P		376		8		1	
30min-control4	1-30min-control	AB000460_at	P		984		12		2	
30min-control4	1-30min-control	AB000468_at	P		1108		14		0	
30min-control4	1-30min-control	AB001106_at	P		141		7		1	
30min-control4	1-30min-control	AB001325_at	P		734		11		3	
30min-control4	1-30min-control	AB002356_s_at	P		340		12		2	
30min-control4	1-30min-control	AB002533_at	P		19048		19		0	
30min-control4	1-30min-control	AB002559_at	P		1151		14		2	
30min-control4	1-30min-control	AB003102_at	P		918		14		0	
30min-control4	1-30min-control	AB003177_at	P		542		14		1	
30min-control4	1-30min-control	AB003698_at	P		94		7		1	
30min-control4	1-30min-control	AB004884_at	P		552		12		0	
30min-control4	1-30min-control	AB005190_at	P		253		12		2	
30min-control4	1-30min-control	AC000064_cds	P		174		10		2	
30min-control4	1-30min-control	AC002045_xpi2	P		1215		17		1	
30min-control4	1-30min-control	AC002115_cds	P		6029		18		1	
30min-control4	1-30min-control	AC002115_rna2	P		557		13		2	
30min-control4	1-30min-control	AD000092_cds	P		795		15		3	
30min-control4	1-30min-control	AF000177_at	P		522		11		0	
30min-control4	1-30min-control	AF006094_at	P		633		13		3	
30min-control4	1-30min-control	AF006087_at	P		661		12		1	
30min-control4	1-30min-control	AF007875_at	P		559		13		3	
30min-control4	1-30min-control	AF009368_at	P		1256		13		2	
30min-control4	1-30min-control	AF015913_at	P		2151		18		0	

Record: 14 1

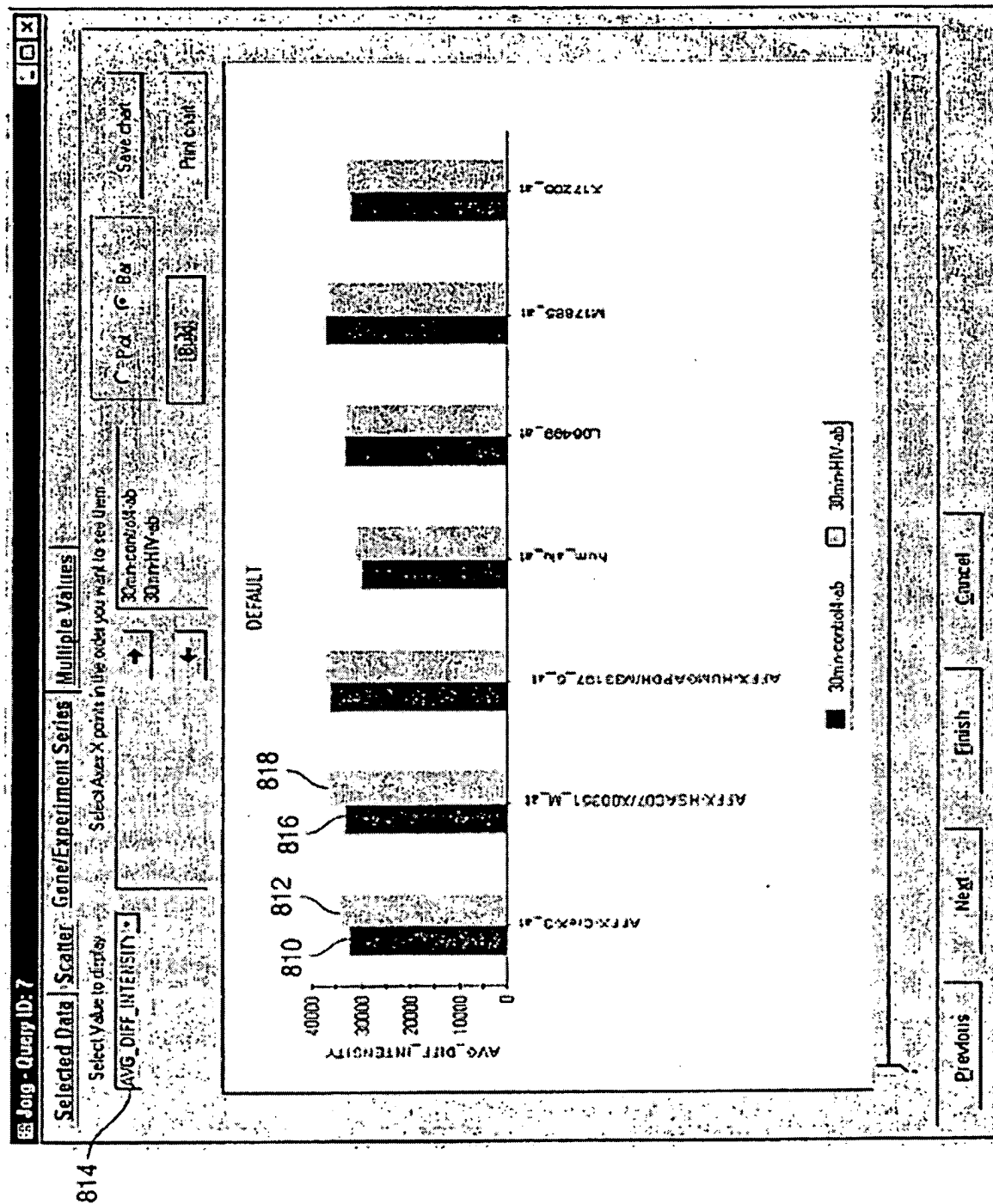


FIG. 7J



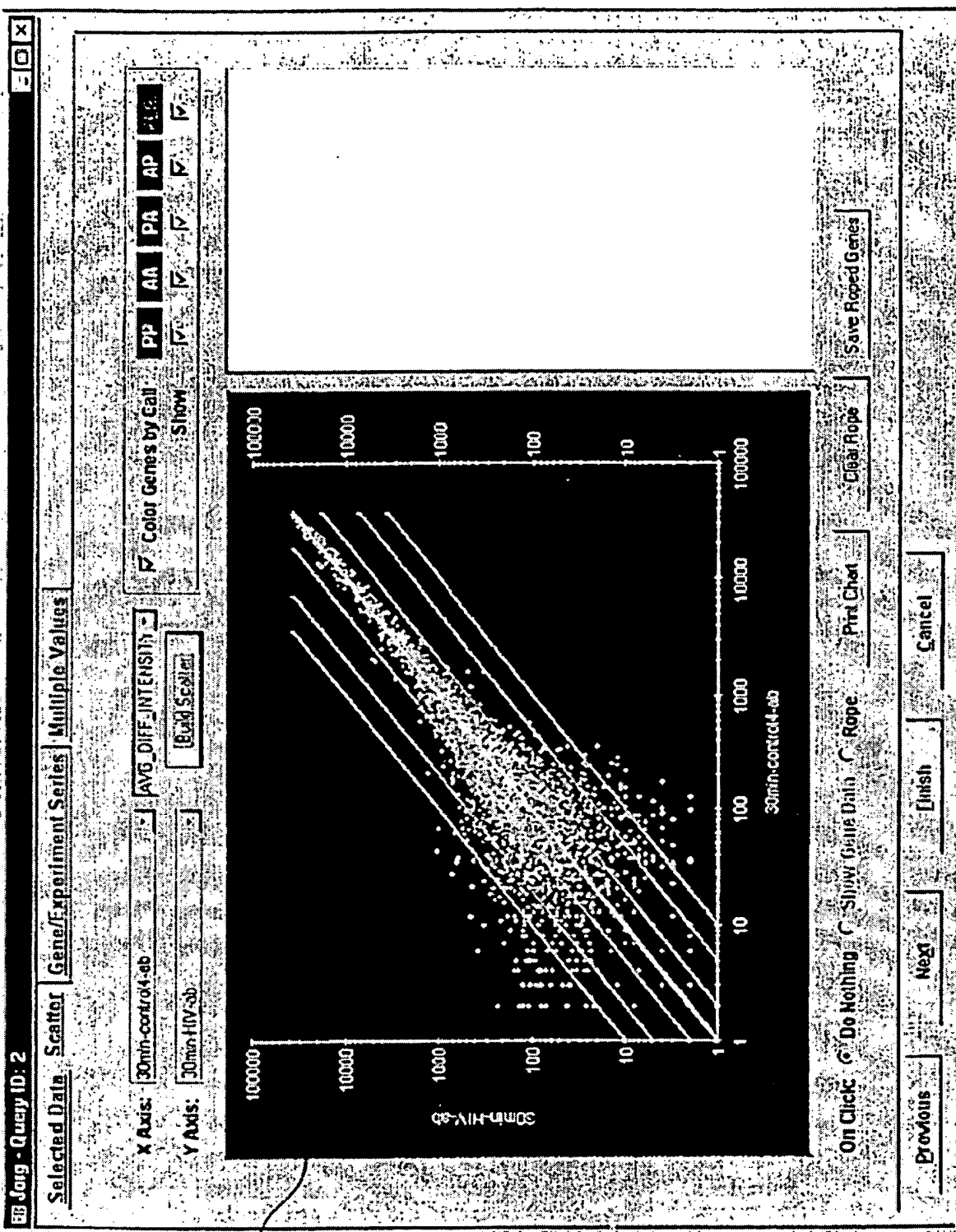


FIG. 7K

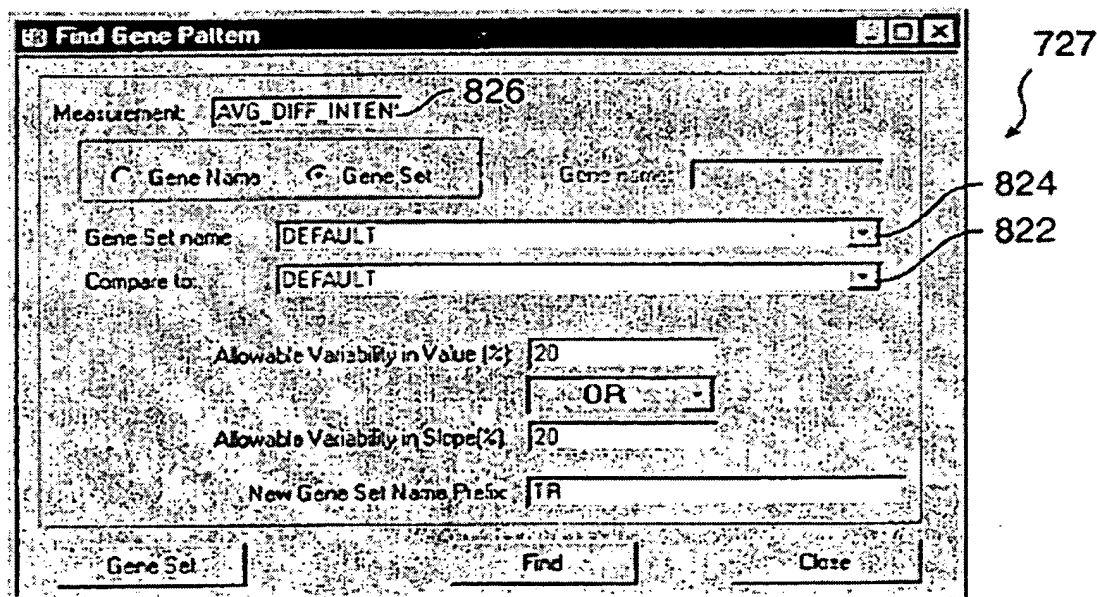
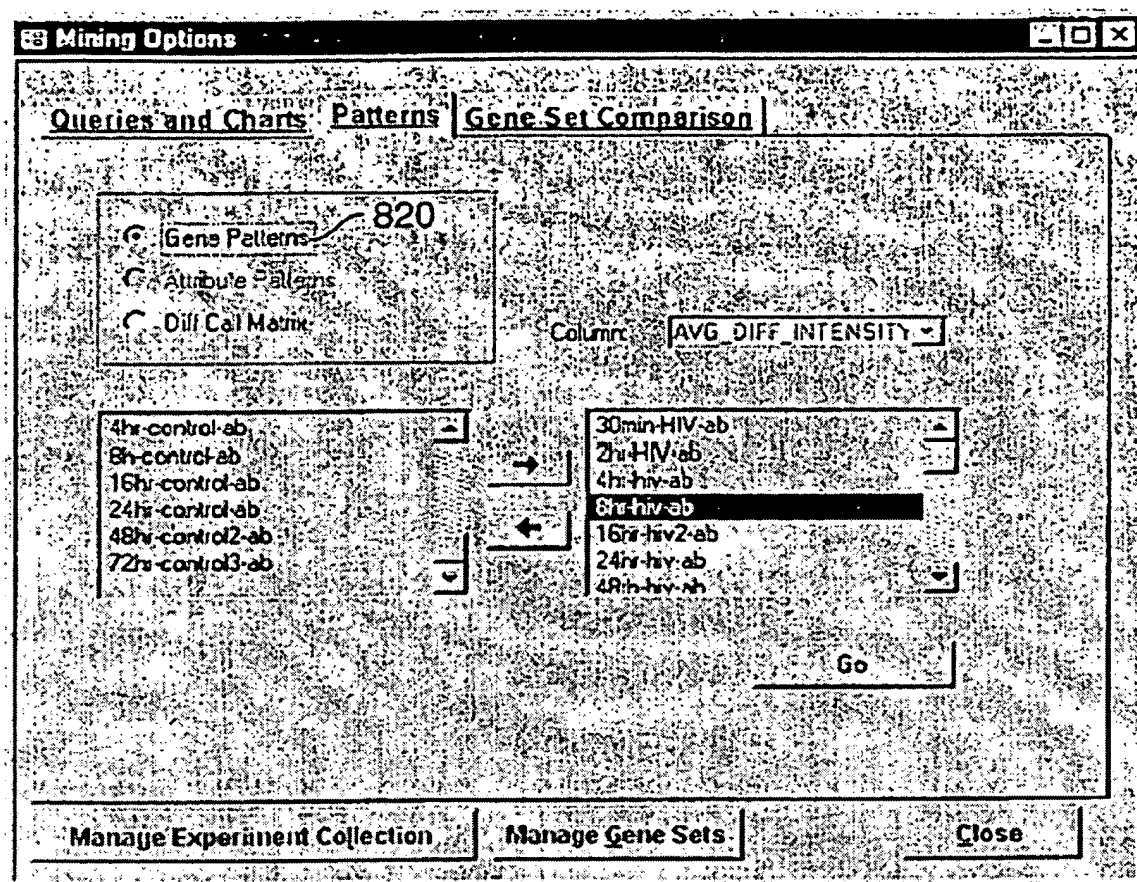


FIG. 7L

**Mining Options**

Queries and Charts | Patterns | **Gene Set Comparison**

Select Gene Sets to Compare:

825	DEFAULT	sa	2/11/99 1:13:30 PM
2793	HepG2_IL_1-NC(1o6)	sa	6/4/99 7:23:29 PM
2794	HepG2_IL_1a-NCID>(1o6)	sa	6/4/99 7:30:45 PM
2795	HepG2_IL_1a-NCID<-100(1o6)	sa	6/4/99 10:24:23 PM
2796	HepG2_IL_1ab-NC(1o9)	sa	6/4/99 10:44:30 PM
2797	HepG2_IL_1ab-NCID+100(1o9)	sa	6/4/99 11:25:47 PM
2798	HepG2_IL_1a-NCID-100(1o9)	sa	6/4/99 11:27:58 PM
2799	HepG2_IL_1a-NCID&AD+100(1o9)	sa	6/5/99 12:10:53 AM
2800	HepG2_IL_1a-NCID-100&AD+100(1o9)	sa	6/5/99 12:29:33 AM
2802	Overlap	sa	6/5/99 12:49:47 AM
2803	HepG2_IL_1ab-NCID100(1o9)	sa	6/5/99 12:54:45 AM
2804	HepG2_IL_1a-DMD-100&FC-1(1o9)	sa	6/5/99 1:32:16 AM
2805	HepG2_IL_1ab=ID+100&FC+1(1o9)	sa	6/5/99 1:35:04 AM
2806	HepG2_IL_1a-CMD100&FC1(1o9)	sa	6/5/99 1:39:43 AM
2807	HepG2_IL_1a-CMD100&FC1(1o9)	sa	6/5/99 1:39:54 AM
2808	HepG2_IL_1ab=C&ID100&FC1(1o9)	sa	6/5/99 1:43:19 AM
2809	HepG2_IL_1ab=C&ID100&FC1(1o9)	sa	6/5/99 1:45:52 AM
2810	HepG2_IL_1ab=C&ID100&FC1(1o9)	sa	6/5/99 1:50:31 AM
2811	HepG2_IL_1ab=C&ID100&FC1(1o9)	sa	6/5/99 1:51:37 AM

0 selected

Refresh Select

Manage Experiment Collection Manage Gene Sets Close

**fmGeneSets\_Compare: Form**

	HepG2_IL_1-NC(1o6)	HepG2_IL_1a-NCID>(1o6)	HepG2_IL_1a-NCID<-100(1o6)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	836
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	838
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Record: 14 of 3

Enter name of new Gene Set Here: Geneset 2 of 3

Create Gene Set Close Form

FIG. 7M

**Genes**

**Select Gene Set:** **DEFAULT**

Double-click on  
Accession to go  
to Entrez

Copy My Gene Set

Copy Other User Gene Set

New Gene Set

Delete Gene Set

ACCESSION	PROBE_PAIR_NAME	DEFINITION
1-Apr	1-Apr	
A28102	A28102_at	Human GABAA receptor alpha-3 subunit
AB000114	AB000114_at	Human mRNA for osteomodulin, complete cds
AB000115	AB000115_at	Human mRNA, complete cds
AB000220	AB000220_at	Human mRNA for semaphorin E, complete cds
AB000381	AB000381_s_at	Human DNA for GPI-anchored molecule-like protein, complete cds
AB000409	AB000409_at	Human mRNA for MNK1, complete cds
AB000410	AB000410_s_at	Human HOGG1 mRNA, complete cds
AB000449	AB000449_at	Human mRNA for VRK1, complete cds
AB000450	AB000450_at	Human mRNA for VRK2, complete cds
AB000460	AB000460_at	Human mRNA, clone RES4-22B, complete cds
AB000462	AB000462_at	Human mRNA for SH3 binding protein, clone RES4-23A, complete cr

**Add Genes**

**Remove Genes**

**Total Genes:** 35620

**Close**

Record: 1 of 1 of 35620 (Filtered)

FIG. 7N

Updated Gene Set		
Accession	Definition	Filter
		Reset
1-Apr		
M95678	Homo sapiens phospholipase C-beta-2 mRNA, complete cds	
T51617	yb27h05.s1 Homo sapiens cDNA clone 72441 3'	
M93363	Human plasma membrane calcium-pump ngATPase (PMCA4) mRNA, complete cds	
R06239	Homo sapiens DNA-binding protein (PO-GA) mRNA, complete cds	
L14922	Human placental protein (PP1) mRNA, complete cds	
M32402	yb28d09.s1 Homo sapiens cDNA clone 72497 3'	
T51944	Human peroxisome proliferator activated receptor mRNA, complete cds	
L02932		
T51849		
T51849		
T51849		
L07592		
T51856		
T51955		
U33635		
T52003		
T52003		
T63591		
T70046		
R24080		
T52014		
	yb29q09.s1 Homo sapiens cDNA clone 72640 3' contains Alu repetitive element	
		Remove Genes
		Close

FIG. 70